Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

January 30, 1961

RECEIVED
JAN 30 1961
THE CHEMISTS' CLUB
LIBRARY

Baker
BISMUTH
NITRATE

J.T.Baker

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York • Chicago • Philadelphia • Los Angeles

Pennsalt
AMYL ALCOHOLS
Primaries • Secondaries • Tertiary • Pentasol®

Industrial Chemicals Division
PENNSALT CHEMICALS CORPORATION
3 Penn Center, Philadelphia 2, Pa.

Pennsalt Chemicals
ESTABLISHED 1850

CARBIDE's
Ucar Butylene Oxide 12

UNION CARBIDE
CHEMICALS COMPANY
DIVISION OF UNION CARBIDE CORPORATION
270 Park Avenue, New York 17, New York

North • East • West • South
CSC assures fast delivery
of
METHANOL

Distribution points and service offices in key cities, coast-to-coast, guarantee dependable supply. Any quantity, one quality —minimum purity 99.85%—one of highest purities for bulk chemical. Call CSC first.

INDUSTRIAL CHEMICALS DEPARTMENT
COMMERCIAL SOLVENTS CORPORATION
260 MADISON AVE., NEW YORK 16, N. Y. OFFICES IN PRINCIPAL CITIES, CANADA AND MEXICO
CSC

HIGH QUALITY
SODIUM
SULPHATE

PRIOR
CHEMICAL CORPORATION
420 LEXINGTON AVENUE
NEW YORK 17, N. Y.

CABLE: PRIORCHEM NEW YORK
PHONE: LExington 2-9811

BORAX
BORIC ACID
POTASH
LITHIUM
BORON Compounds
U.S.BORAX
UNITED STATES BORAX & CHEMICAL CORPORATION
630 SHATTO PLACE • LOS ANGELES 5, CALIFORNIA
Regional Offices: CHICAGO NEW YORK ATLANTA

Choose J. T. Baker for Manganese Salts

MANGANESE CARBONATE, REAGENT

Assay (as Mn)	44.0 %	Min.
Insoluble in HCl	0.010%	Max.
Chloride (Cl)	0.020%	Max.
Sulfate (SO_4)	0.005%	Max.
Iron (Fe)	0.002%	Max.
Other Heavy Metals (as Pb)	0.005%	Max.
Zinc (Zn)	0.05 %	Max.
Magnesium and Alkalies (as SO_4)	0.20 %	Max.

When you need tonnage quantities of manganese chemicals of controlled purity for use where precision is essential, choose J. T. Baker. Baker process chemicals are the key to simpler, more exact production control . . . fewer purification steps . . . faster, more trouble-free processing.

Note the specifications at left. Clearly defined is the manganese content, which makes it easier for you to calculate your batch requirements. This is particularly appreciated by the electronics industry in making thermistor and ferrite premixes.

The defined purity of Baker manganese salts is also appreciated by the photographic industry, as well as by pharmaceutical manufacturers, makers of trace mineral additives and others. The economical prices of these compounds make them available for a wide number of industrial uses.

Baker also offers an important group of nickel and cobalt chemicals. All are manufactured to high standards of purity, and are quickly available in tonnage quantities.

HERE IS A SELECTED LIST OF J. T. BAKER MANGANESE, NICKEL AND COBALT COMPOUNDS

MANGANESE

Manganese Carbonate, Reagent Powder
Manganese Chloride, Reagent Crystal
Manganese Dioxide, Reagent Powder
Manganese Nitrate, Reagent Solution
Manganese Sesquioxide, Purified Powder
Manganese Sulfate, Purified Monohydrate Powder and Reagent

NICKEL

Nickel Acetate, Reagent Crystal
Nickel Ammonium Sulfate, Reagent Crystal
Nickel Carbonate, Reagent Powder
Nickel Chloride, Purified and Reagent Crystal
Nickel Nitrate, Purified Flake and Reagent Crystal
Nickel Oxide, Reagent Black Powder
Nickel Oxide, Reagent Green Powder
Nickel Sulfate, Reagent Crystal

COBALT

Cobalt Acetate, Reagent Crystal
Cobalt Carbonate, Reagent Powder
Cobalt Chloride, Technical, Purified, and Reagent Crystal
Cobalt Nitrate, Technical, Purified, and Reagent Crystal
Cobalt Oxide, Technical and Reagent Powder
Cobalt Sulfate, Reagent Crystal

May we quote on your requirements? Write or phone—

J. T. Baker Chemical Co.
Phillipsburg, New Jersey

RECEIVED
JAN 30 1961
THE CHEMISTS' CLUB
LIBRARY

Oil, Paint and Drug Reporter

Vol. 179 No. 5 30 Church St., New York 7, N. Y. January 30, 1961

Sulfur Ship: It's Exclusive

Texas Gulf Sulphur Company has just launched what is reportedly the first ocean-going vessel devoted exclusively to the transport of molten sulfur. The SS Marine Sulphur Queen, a converted T-2 tanker, is the ship that has won the distinction.

She will be used by Texas Gulf to carry sulfur from the company's main storage and loading terminal at Beaumont, Tex., to two new molten sulfur terminals at Carteret, N. J., and Norfolk, Va.

The Queen will be operated by Marine Transport Lines, Inc., under long-term contract with the New York-based sulfur company.

A pioneer in shipping molten sulfur, Texas Gulf estimates that by the end of this year approximately 40 percent of its more than 2 million tons of annual output will be shipped in this form—or more than double the volume of 1960.

Until recent years, virtually all sulfur had been shipped as a dry bulk commodity. With sulfuric acid producers at the vanguard, more and more customers have switched to the liquid form because of these advantages:

- A reduction in materials handling time, with no need for product remelting.
- Elimination of wind losses and contamination from bulk storage.
- More efficient inventory control thanks to speedier shipments from near-by molten terminals.

The Carteret terminal, operated by Atlantic Sulphur Terminal Company, has a storage capacity of 26,000 tons, and the Elizabeth River Terminal Company unit at Norfolk, 20,000 tons.

Drug Men Are Within Range But Not Quite on the Bullseye As Kefauver Draws a Bead

With both barrels loaded and the trigger cocked, Sen. Estes Kefauver of Tennessee is taking another bead on pricing practices in some of the nation's major industrial and professional areas of activity this year. The drug industry, which felt the full effect of the senator's blasts last year, will again find itself within the range of his shot pattern, but for producers in the industry it will represent mostly a mopping-up operation to support legislation planned by the Tennesseean for tighter regulation of the industry.

Without a vote of dissent, the senate rules committee last week voted to give the antitrust subcommittee of the senate judiciary committee, which is the formal name of the Kefauver antimonopoly investigation group, another $450,000. This will be used to carry on its probing into the devices and schemes employed in industries and professions which question the effectiveness of existing antitrust law restraints.

Much Testimony Scheduled

The committee will hear testimony from the American Medical Association, doctors and organizations.

It expects to concentrate on the financial relations between the drug industry and investment houses. It further expects to look into the policy of the Justice Department in granting antitrust consent decrees.

The unit may look into possible antitrust violations in the nickel industry and into the matter of consumer frauds.

The drug probes of the committee so far have saved the American public $55 million in drug costs because of probe-induced price cuts, the committee claims.

This year's subsidy is the same amount the committee received last year and again it places at the top of the heap of congressional investigating groups, measured by the size of their expense accounts.

The committee has a staff of nearly fifty persons, including more than a dozen attorneys who do most of the investigating work, and four trained economists. The size of the committee last year was exceeded only by the labor racketeering investigating committee.

When the Kefauver group resumes its probing, sometime within the next month

—Continued on page 34

P&G Is Entering Chile With a Soap Enterprise

Procter & Gamble Company is moving into Chile with a new company for the manufacture and sale of soaps and synthetic detergents. The new branch will be called Procter & Gamble (Chile) SAI.

Teaming up with P&G is Perlina SAI. Arrangements will involve continuation of Perlina's Chilean products, together with the introduction of certain of P&G's brands.

Benzene Expansion Fever Rages: Is Market Headed for the Sick Bay?

The benzene fever still rages, swelling capacity of an old producer, and infecting a couple of new ones. The epidemic is most widespread along the Gulf Coast, and industry observers wonder if it isn't reaching plague proportions. Fact is that if all announced expansions—including those proposed, planned and under construction—are carried out, capacity will hit 1.055 billion gallons a year by the end of 1962. And since even the rosiest predictions for production in that year are only in the 450-million-gallon range, speculation is rising as to who's going to call the doctor.

Last week's benzene developments:

- Shell Oil Company is increasing total capacity to 60 million gallons a year at its Wood River, Ill., Houston, Tex., and Wilmington, Calif., refineries. New facilities should go on stream soon.
- Atlantic Refining Company and Pure Oil Company will put up a 56-million-gallon benzene-toluene-xylene plant at Pure's Nederland, Tex., refinery.

Benzene Production

1962	*450 million gals.
1961	*425 million gals.
1960	*410 million gals.
1959	347 million gals.
1958	287 million gals.
1957	332 million gals.
1956	337 million gals.
1955	307 million gals.
1954	257 million gals.

Above output figures are for petroleum-based and coaltar benzene combined.
* Estimate.
Source: Tariff Commission.

Breakdown: benzene, 18 million gallons; toluene, 25 million gallons; xylene, 13 million gallons. Start-up date: end of this year.

- Crown Central Petroleum Corporation is building a "Udex" unit at its Houston, Tex., refinery. Estimated capacity: 4 million gallons benzene, 10 million gallons toluene, 12 million gallons xylene. On stream: mid-year.

In addition, Crown Central is constructing a 17-million-gallon-a-year benzene plant using a "Detol" hydrodealkylation process developed by Houdry Process Corporation. Total benzene, "Detol" plus "Udex": 21 million gallons a year.

Add to these expansions earlier reports regarding capacity boosts by Mon-

—Continued on page 32

TOP MAN: A. E. Albright, elected president and board chairman of Stauffer-Hewitt, Inc., newly-formed offshoot of Stauffer Chemical Company and Hewitt-Robins, Inc. Mr. Albright is also vice-president and assistant to the president of Stauffer Chemical Company.

Atlas Tells Secret: It Covets Drug Firm

Atlas Powder Company has told its secret. The Wilmington, Del., firm plans to diversify into the drug business through the acquisition of Stuart Company, of Pasadena, Calif., pending approval by the directors and stockholders of both companies.

Atlas identified the object of its merger intentions last week after presidents

—Continued on page 40

Chemical Mergers May Be Top Priority FTC Target

The chemical industry may well be one of the high priority targets of a new anti-merger drive by the government. Federal Trade Commissioner Earl W. Kintner hinted as much last week in a speech prepared for the antitrust section of the New York State Bar Association.

The FTC chief called attention to the 1960 anti-merger suit against Hooker Chemical Corporation, noting that this was

—Continued on page 33

Dixon Buys Producer Of Chromic, Urethanes

Dixon Chemical & Research, Inc., has contracted to buy all the capital stock of Better Finishes & Coatings, Inc., for $750,000 and Dixon stock. The purchase includes Better Finishes' subsidiaries, Surface Coatings Engineers, Inc., and Doremus-Passaic Realty, Inc.

Dixon Chemical president Arthur W. Dixon, jr., points out that the chromic acid output of the newly-acquired firm uses a lot of sulfuric acid, and calls the agreement "another step in the upgrading of our own basic product."

Mr. Dixon says this upgrading "began last year with the construction of our own aluminum sulfate plant, and will continue when the hydrofluoric acid plant of our affiliate, Dixon Chemical Industries, comes

—Continued on page 33

Acetaldehyde ex Ethylene: Celanese to Build Big Unit

Celanese Corporation of America will put up a 100-million-pound-a-year acetyl plant at Bay City, Tex., to make acetaldehyde and 2-ethylhexanol. The New York-based firm now makes more than 500 million pounds of acetyl chemicals at Bishop and Pampa, Tex.

While the Bishop and Pampa plants are based on liquid phase oxidation of pro-

—Continued on page 55

MOVES HIGHER: Herman C. Nolen, president of McKesson & Robbins, Inc., advanced to chief executive officer. George Van Gorder continues as board chairman of the New York company.

Petroleum Benzene: Expansion Is the Keynote

Producer	*Location*	*New Capacity*
Ashland Oil	Catlettsburg, Ky.	15 million gals.
Ashland Oil	North Tonawanda, N.Y.	10 million gals.
Chemoil	New Orleans, La.	3 million gals.
Crown Central	Houston, Tex.	21 million gals.
Gulf Oil	Philadelphia	12 million gals.
Humble	Baton Rouge, La.	9 million gals.
Humble	Baytown, Tex.	25 million gals.
Mobil	Beaumont, Tex.	30 million gals.
Monsanto	Chocolate Bayou, Tex.	42 million gals.
Phillips	Sweeny, Tex.	22 million gals.
Plymouth	Texas City, Tex.	15 million gals.
Pure-Atlantic	Nederland, Tex.	18 million gals.
Shell Oil	Houston, Tex.	34 million gals.
Shell Oil	Wilmington, Calif.	
Shell Oil	Wood River, Ill.	
Signal Oil	Houston, Tex.	12 million gals.
South Hampton	Silsbee, Tex.	6 million gals.
Sun Oil	Marcus Hook, Pa.	12 million gals.
Sunray	Tulsa, Okla.	9 million gals.
Suntide	Corpus Christi, Tex.	12 million gals.
Tennessee Oil	Chalmette, La.	8 million gals.
Texaco	Port Arthur, Tex.	30 million gals.
TOTAL		345 million gals.

Above petroleum benzene expansions include proposed projects and plants already under construction.

FDA Rules for Color Additives: All Set Up and Under Scrutiny

Food & Drug Administration plans to be in business within a few months to begin receiving applications from color manufacturers and users for clearance of their color additives under the new control law. General regulations setting out the guide lines for filing petitions and detailing the various administrative steps under the new law are now being studied by industry. Interested persons have until February 24 to file comments on the regulations before they are made finally effective.

The new regulations, published in the *Federal Register* last week, tell manufacturers the type of experimental data and other information which will be required and how to submit it to obtain safety clearance for permament listing and setting of safe tolerances for color additives.

Some Other Matters Covered

The regulations also cover a number of other matters. They include: definition of terms, fees to be charged for listing and certification of batches of colors, labeling requirements for colors, time schedules for acting upon petitions, protection of trade secrets, procedures for obtaining certification or exemption from certification of batches of both coaltar and non-coaltar colors, and procedures for filing objections and requesting public hearings on proposed regulations.

The manner in which the Delaney cancer clause is to be administered is spelled out in the regulations in much greater detail than was the case in the food additives regulations.

The rules state that whenever the scientific data before the commissioner suggest the possibility that the color additive or any of its components or impurities has induced cancer, the commissioner shall determine whether, based on the best judgment of appropriately qualified scientists, cancer has been induced and whether the color additive or any of its components or impurities was the causative substance.

If it is the commissioner's best judgment that the data do not establish these facts, the anti-cancer clause is not applicable; and if the data considered as a whole establish that the color additive will be safe under the conditions that can be

—Continued on page 40

Nuodex Mexican Division Is Turning Out Additives

Nuodex Mexicana, SA, newly-formed subsidiary of Heyden Newport Chemical Corporation, is in business.

The Mexico City-based unit has just started making and selling a line of industrial chemical additives for paint manufacturers and nickel processors.

The product line—including naphthenate paint driers, loss-of-dry inhibitors, nickel sulfate and nickel carbonate—parallels the line turned out in the US by the Nuodex Products Division of Heyden Newport.

Dow Cuts Polystyrene; 'Consequences' Ahead

Dow Chemical Company, bowing to competition, has reluctantly cut its price for general purpose polystyrene to 18 cents a pound. The Midland, Mich., company's price announcement includes a warning that this might necessitate a re-appraisal of services to customers.

"It appears unavoidable," says Dow, "that the research, technical service and merchandising contributions previously made by material manufacturers and molders must be curtailed to the detriment of all."

In late 1960 polystyrene prices plummeted from 21½ cents to 18 cents a pound. Dow subsequently posted an advance to 19 cents, but found no followers among the competition.

In yielding to the 18-cent level last

—Continued on page 55

Esso's Swedish Affiliate Will Make Polypropylene

Svenska Esso, a Swedish affiliate of Standard Oil Company (New Jersey), has acquired a license from Montecatini, of Italy, to manufacture polypropylene for the Scandinavian market.

Esso plans to construct a polypropylene facility at its major petrochemical installation at Spenungsund on the Swedish west coast. This petrochemical complex, now in the engineering stage, is expected to get under way in the spring, providing government permits are available.

Nat'l Distillers, Brass Firm Are Holding Merger Talks

National Distillers & Chemical Corporation and Bridgeport Brass Company have their heads together in merger talks.

Confirmation of the negotiations, which have been going on since late December, came last week from spokesmen for the two companies.

Back of the merger is a joint interest in zirconium, titanium, tantalum and columbium. Bridgeport Brass manages for a fee Reactive Metals, Inc., a producer of these exotic metals.

Reactive Metals is owned 60 percent by National Distillers and 40 percent by Sharon Steel Corporation. Bridgeport Brass has an option to buy into Reactive Metals as an equal partner. The option, of course, would be meaningless if the merger should go through.

The Week's Price Changes

Citronella Oil, Copra, Corn, Peanut, Tung Oils Advanced. Copper Salts, Grapefruit, Lime and Spearmint Oils Reduced.

Prices Advanced

Citronella oil, Java, 5c. per lb. (p. 45).
Coconut oil, crude, Pac. coast, ½c. per lb. (p. 49).
Copra, $5 per ton (p. 49).
Corn oil, crude, ½c. per lb. (p. 49).
  Refd., ½c. per lb. (p. 49).
Cottonseed oil, crude, ⅜c. per lb. (p. 49).
  Refd., ⅜c. per lb. (p. 49).
Lard, cash, 3-20c. per lb. (p. 49).
Peanut oil, crude, ½c. per lb. (p. 49).
  Refd., ½c. per lb. (p. 49).
Rapeseed oil, ¾c. per lb. (p. 49).
Safflower oil, ½c. per lb. (p. 49).
Soybean meal, $4 per ton (p. 49).
Soybean oil, crude, ¼c. per lb. (p. 49).
  Refd., ¼c. per lb. (p. 49).
Tung oil, ½c. per lb. (p. 49).

Prices Reduced

Castor oil, No. 1 Braz., ¼c. per lb. (p. 49).
Copper carbonate, 50c. per 100 lbs. (p. 31).
Copper chloride, cupric, cryst., reg., ¼c. per lb. (p. 31).
  Cryst., dried, ½c. per lb. (p. 31).
  Anhyd., ½c. per lb. (p. 31).
Copper chloride, cuprous, 7/10c. per lb. (p. 31).
Copper oxide, 1c. per lb. (p. 47).
Copper sulfate, cryst., 25c. per 100 lbs. (p. 31).
  Monohydrate, 35c. per 100 lbs. (p. 31).
  Tribasic, 50c. per 100 lbs. (p. 31).
Cottonseed meal, $1 per ton (p. 49).
Grapefruit oil, 10c. per lb. (p. 45).
Grease, choice, white, ¼c. per lb. (p. 49).
Lime oil, Mexican, 35c. per lb. (p. 45).
  West Indian, expressed, $1.25 per lb. (p. 45).
Spearmint oil, 80c. per lb. (p. 45).
Tallow, ¼c. per lb. (p. 49).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100=1949 average)

Jan. 27, 1961	Jan. 20, 1961	Jan. 29, 1960
110.65	109.64	111.63

Parke, Davis: The Piper Lurks

Parke, Davis & Co., Detroit Mich., may have to pay the piper for its violation of the antitrust law five years ago. The Supreme Court of the United States refuses to accept the fact that the company has ceased the action, which brought it into conflict with the law, as a satisfactory solution of the case. Last week the high court ordered the lower court to enter a finding that the drug company had violated the law.

Last spring the Supreme Court ruled that Parke-Davis violated the antitrust law by refusing to sell drugs to a dealer who resold them at prices below the suggested retail price.

When the case got back to the District Court, Judge Joseph R. Jackson of the District of Columbia Federal Court was convinced that the company no longer engaged in the practice condemned by the Supreme Court and ruled that since there was nothing for him to stop the company from doing, he would dismiss the case.

The government was not satisfied with such a disposition of the issue, arguing that Judge Jackson should have entered an order finding the drug firm in violation of the law so that the case would remain on the docket in the event violations ever occurred again. The Justice Department appealed to the Supreme Court on this ground and won a *per curium* opinion upholding its position last week.

The importance of the Supreme Court's ruling lies in the fact that the dealer involved can sue Parke-Davis for damages suffered when the drug firm refused to sell him its products.

RUNNING A PLANT: Albert Saunders, named manager of the Bound Brook, N. J., plant of Interchemical Corporation's color and chemicals division.

Dietary Chemicals Are Put Up for FDA Examination

A batch of dietary supplement chemicals is currently coming under the scrutiny of Food & Drug Administration for clearance under the food additives law as "generally recognized as safe."

The list of some 175 products was compiled and submitted to the agency by Pharmaceutical Manufacturers Association.

More than half of the materials have

—Continued on page 54

Industrial Paint Tabs Up

Jones-Dabney Company, Louisville, Ky., a division of Devoe & Raynolds Company, has posted price increases averaging approximately 3 percent on its line of industrial finishes, effective tomorrow (January 31). The company says the increases, reportedly the first to be effected by Jones-Dabney in the past four years, are required by the progressive rise in manufacturing and shipping costs.

Index to News and Market Reports

Association News

FMC'S Tinsley Is SAACI Head..... 7
McNeil Gets Procter Medal..... 7
P.A.'s Hint Downtrend Bottoming..... 5
Plastics Market Boosters Discussed..... 7

Government News

Camphor from Taiwan Under Probe.... 54
Chemical Mergers Are FTC Target..... 3
'Chloromycetin' Label Rules Tightened.. 5
Dietary Chemicals Under FDA Scrutiny.. 4
Drug Men To Be Kefauver Target..... 3
FDA Readies Color Additives Controls.. 4
Parke-Davis Plagued by Antitrust Suit.. 4

Industry News

Acetaldehyde Unit Slated by Celanese.. 3
Armour Increases Fertilizer Interests.... 7
Atlas Covets Drug Firm..... 3
Benzene Expansion Fever Rages..... 3
Benzene Production: 1954-1962..... 3
Dixon Buys BFC..... 3
Dow Cuts Polystyrene Price..... 4
DuPont to Shut Rayon Unit..... 33
Fatty Acid Growth Seen..... 5
Foremost Building Fatty Nitrogen Unit.. 3
Glidden Acquiring Metals Unit..... 7
Goodrich-Gulf Slates Rubber Plant..... 3
Import Duty Cuts Urged for Oils..... 42
Industrial Biochemicals Relocates..... 37
Industrial Paint Prices Hiked..... 4
Nat'l Distillers Buys Fertilizer Unit..... 5
Nat'l Distillers Plots Merger..... 4
Nitrogen Fertilizer Shows Gain..... 7
Petro Benzene: Producers' Capacities.... 3
Stepan to Enter Gas Additives Field..... 5
Sulfur Tanker Launched..... 3

International News

Borden to Build Overseas Resin Unit.... 5
Carbon Black Plant Set..... 7
Chemical Cost-Price Squeeze in Europe.. 5
Esso Swedish Unit to Make Polypropylene 4
Nuodex's Mexican Unit in Business..... 4
P&G in Chilean Venture..... 4
Penick's UK Affiliate Has New Name.... 55
PVC Trade's Proposal Rejected..... 7

Personnel News

Atlas Appoints Hays..... 3
Carlisle Chemical Appoints Richards..... 7
General Electric Names Murray..... .
Interchemical Advances Saunders..... 4
McKesson & Robbins Elects Nolen..... 3
Stauffer Elects Albright..... 3
Union Carbide Names Potts..... 5

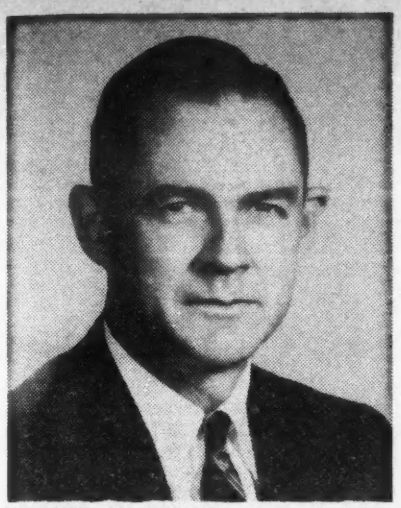
Market Reports

Acids 31
Agricultural Chemicals 48
Aliphatic Organics 36
Aromatic Chemicals 45
Botanical Drugs, Gums 40
Coal Chemicals 43
Coatings Materials 47
Drugs 39
Essential Oils 45
Fats & Greases 49
Fertilizer Materials 48
Fine Chemicals 39
Heavy Chemicals 31
Industrial Organic Chemicals 36
Metals, Nonferrous 31
Naval Stores 47
Oil Cake and Meal 50
Oils 49
Paint Materials 47
Pesticides 48
Petrochemicals 36
Petroleum Derivatives 35
Protective Coatings Materials 47
Spices 45
Trade Name Chemicals 35
Waxes 50

General Features

Advertisers' Index 55
Association Meeting Dates 7
Bids Wanted 30
Classified Advertisements 54
Coal Chemical Output 43
Crude Oil Stocks 35
Current Market Quotations 10
Editorials 9
Imports 55
Obituaries 54
OPD Price Index 4
OPD Reports From Europe..... 5
Washington Talks It Over..... 5

OIL, PAINT AND DRUG REPORTER, Vol. 179, No. 5, January 30, 1961. Published weekly on Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U.S.A. Second-Class postage paid at New York, N. Y. Single copy price: 50 cents. Subscription prices:—United States and Possessions, $5 a year; Canada and Newfoundland, $7; other countries, $12. Copyright, 1961. Schnell Publishing Company, Inc.



BECOMES AN OFFICER: James E. Potts, named a vice-president of Union Carbide International Company, a division of Union Carbide Corporation, New York. He has been active in Union Carbide's affairs overseas for twenty years.

Stepan's New Cash: It's for 'Gas' Additives

Stepan Chemical Company has just picked up a pocketful of new cash, and is ready to put it to work. The Northfield, Ill., concern has decided to take the money—an undisclosed amount which it has received from the sale (see article on page 7) of its Ris-Van, Inc., fertilizer subsidiary—and put it into the gasoline additive business.

Manufacture of the additives—tetraethyl lead and tetramethyl lead—will get an assist from an Italian expert, Societa Lavorazioni Organiche Inorganiche.

The products will be made in a United States plant, at a site still unchosen. The Italian firm will furnish design information and technical data. Stepan will build the plant, using the foreign producer's installation as an exact model.

Says Alfred C. Stepan, jr., president: This is the "largest undertaking" Stepan has ever negotiated. He estimates sales of his additives will amount to $20 million a year.

The move will put Stepan into a field in which two giants already dominate and another newcomer is making a bid.

The entrenched leaders are E. I. duPont

—Continued on page 32

Fatty Acid Growth Seen In Chemical Application

Nothing spectacular is at hand, but fatty acid consumption by the chemical industry should continue on a steadily rising growth curve.

That's the outlook as reported by Charles H. Lighthipe, of Nopco Chemical Company, Harrison, N.J.

Many chemical applications for fatty acids have been little more than glossed over and some are still largely untapped, Mr. Lighthipe pointed out at last week's convention of the Association of American Soap & Glycerine Producers. He cited halogenation, oxidation, polymerization, hydrogenation and phosphation.

And while these applications aren't expected to boom overnight, he said, they should more than compensate for the static position or slower growth of established markets.

Acyclic derivatives—that is surfactants derived predominantly from fatty acids—gained something like 200 million pounds in the five-year period from 1954 to 1959, he pointed out.

OPD Reports from Europe

Chemical Cost-Price Squeeze Is Beginning to Cut Into Profits On European Balance Sheets

The cost-price squeeze on European chemical profit margins, long obscured by the increased economies of capacity operations, is now out in the open for all to see thanks to a financial report from giant Imperial Chemical Industries, Ltd.—largest of the European chemical companies by far. ICI says its pre-tax trading profits for the last six months of 1960 (an indicated $103.5 million) were some 25 percent behind those of the first half (reported earlier at $142.5 million).

Meanwhile, in Europe there aren't many signs that the squeeze on profits will improve. In fact, the Swedish National Institute of Economic Research has just completed a survey of company executives in Sweden, and reports that most of them expect a wave of price increases this year, with one major exception: chemicals.

Despite the dearth of specific price information in the European chemical industry, it's obvious the Swedes aren't the only ones who expect chemical prices generally to stay put or go down.

German, French Chemical Prices Steady

The German chemical price index has stayed roughly steady for a year. In France, while such metals as steel and aluminum went up last year, the few published chemical prices show little variation.

The British industry, which gives more publicity to its price changes, began 1961 with a whole spate of price cuts. Many of them were triggered by the twin spectres of the world chemical industry: rapidly expanding capacity and cut-price export competition.

ICI cut the price of methylene chloride by $8.40 a ton—to $252 a ton for contract customers in minimum four-ton lots in fifty-gallon drums. The spot prices was cut a similar amount—to $257.60 a ton.

In other chemicals, ICI cut methyl methacrylate used in producing sheet plastics by $23.80 a ton; the solvents trichloroethylene and perchloroethylene were reduced by $2.80 and $14 a ton, respectively, and ICI's chlorinated rubber was cut $28 a ton.

Chlorofluorohydrocarbon propellants and refrigerants also were reduced by ICI. The company won't give for publication the prior or new prices of these latter products.

Shell Chemical, Ltd., and Union Carbide, Ltd., have reduced polyethylene glycol by $28 a ton. The two firms are the only domestic UK producers of polyethylene glycol, and sales of the chemical are estimated at 3,500-4,000 tons a year.

The chemical division of Distillers Com-

—Continued on page 37

Borden Chemical Slates Overseas Resin Facilities

Borden Chemical Company will expand overseas operations by putting up a new synthetic resin plant outside Paris, France, and doubling the resin capacity of its English subsidiary, Leicester, Lovell & Co., Ltd., in Southampton.

Construction near Paris will begin shortly for Borden Chemical Company (France) SA, Borden's eleventh overseas subsidiary. Completion date for the project is scheduled for late 1961.

A production capacity boost of 13 million pounds annually is already under way for the British unit, Borden reports. Leicester, Lovell now produces 14 million pounds a year of thermosetting resins, including urea-formaldehyde, phenol-formaldehyde, epoxies and resorcinol-formaldehyde.

IN MARKETING POST: William W. Hays, appointed marketing manager of the chemical sales department of Atlas Powder Company, Wilmington, Del.

Foremost to the Fore With Fatty Nitrogens

The first source of fatty nitrogen chemicals west of the Mississippi has just come on stream at Oakland, Calif. Claiming the "first" is Foremost Food & Chemical Company, Oakland-based, which has had the unit under construction for the past eighteen months.

Designed to turn out 20 million pounds a year, the new plant will market its product nationally under the brand name "Formonyte."

Fatty nitrogen chemicals are finding their way into an increasingly wide variety of industrial and agricultural processes. Output from the new Foremost facility will be used primarily in non-ferrous ore flotation, textile softeners, corrosion inhibitors, insecticide intermediates and in lubricants, oil additives and other petroleum products.

Foremost Food & Chemical, through its "Eldo" line of products, is a major supplier of high purity coconut fatty acids, methyl esters and related chemicals.

Cis-Polybutadiene Unit Is Set by Goodrich-Gulf

Goodrich-Gulf Chemicals, Inc., Cleveland, Ohio, has slated for immediate construction a multi-million dollar cis-polybutadiene rubber plant at Institute, W. Va. The unit is expected to be in operation by the end of this year with an intitial capacity of 20 million pounds annually.

Cis-polybutadiene, trade-named "Amer-

—Continued on page 42

'Chloromycetin': Label Regulations Are Tightened Up

Tighter labeling rules for Parke, Davis & Co.'s antibiotic, "Chloromycetin," are being imposed by Food & Drug Administration in an effort to lay greater stress on the inherent dangers of the drug.

The action is being taken on the recommendation of the National Research Council which has had the present label requirements under study, at FDA's request, because of continued reports of blood disorders associated with increasing use of the drug.

According to FDA's medical director, William H. Kessenich, the drug has been employed in conditions in which other equally effective drugs could be used with less danger.

Some Big Questions

This has raised questions, he says, as to whether the drug should be taken off the market entirely, or restricted to use in hospitals, or whether marketing should continue under revised patterns of labeling in which increased emphasis of the hazards of the drug is placed.

Adopting the latter course, FDA will require new labeling reading as follows: (Immediate container label.)

"A warning: Blood dyscrasias may be associated with the use of chloramphenicol. It is essential that adequate blood studies be made (see enclosed warnings and precautions)."

The insert must contain the following:

"Warning: Serious and even fatal blood dyscrasias (aplastic anemia), hypoplastic anemia, thrombocytotenia, granulocytopenia) are known to occur after the administration of chloramphenicol. Blood dyscrasias have occurred after short term and prolonged therapy with this drug. Bearing in mind the possibility that such reactions may occur, chloramphenicol should be used only for serious infections caused by organisms which are susceptible to its antibacterial effects. Chloramphenicol should not be used when other less potentially dangerous agents will be effective or in treatment of trivial infections such as colds, influenza, viral infections of the throat or as a prophylactic agent.

"Precautions: It is essential that adequate blood studies be made during treatment with the drug. While blood studies may detect early peripheral blood changes, such as leukopenia or granulocytotenia before they become irreversible, such studies cannot be relied upon to detect bone marrow depression prior to development of aplastic anemia."

Dr. Kessenich said that Parke-Davis is cooperating in re-labeling the drug in compliance with the recommendations.

Hercules Expansion Plans Include Two New Projects

Hercules Powder Company will spend $50 million on expansion this year. New projects include polyproylene fiber expansion at the recently-acquired Industrial Rayon Corporation plant at Covington, Va., and increased hydroxyethyl cellulose ("Natrosol") capacity at Hopewell, Va.

A large portion of the expenditure will be for projects already under way, notably the polyolefins plant expansion at Lake Charles, La., a dimethyl terephtha-

—Continued on page 54

National Distillers Buys Mixed Dry Fertilizer Unit

National Distillers & Chemical Corporation has just acquired the Whitewater, Wis., mixed dry fertilizer plant of Wisconsin Farmco Service Cooperative.

The unit has been turned over to Federal Chemical Company, National Distillers' recently - acquired mixed fertilizer division which operates six other plants in Illinois, Indiana, Ohio, Kentucky and Tennessee.

Purchase price of the Whitewater plant was not disclosed.

Federal Chemical became a part of National Distillers early this year (OPD, 1/2/61).

P.A.'s Are Hinting: The Downdrift May Bottom Out

Business continues to drift slowly downward. While clear-cut evidence is lacking to indicate any change in this down trend, purchasing executives hint in their January reports that the current recession may be bottoming out.

This is reflected in this month's production and new order statistics: 24 percent of those reporting show an increase in new orders, compared to 17 percent in December and 19 percent in November—this is the first upturn in this area since August, 1960.

This report was prepared by the business survey committee of the National Association of Purchasing Agents.

A total of 42 percent reported their new order position was the same as last month, while 34 percent—the same number as last month—reported that it was worse.

In production, 20 percent tell of improvement; whereas, only 15 percent reported improvement last month and only 13 percent in November. However, caution is introduced when you note that 33 percent say their company's production has declined. This compares with 28 percent in this category last month.

A review of the comments made by the members indicates that the majority feel that the rate of decline has slowed. However, most do not see any significant upturn before late second quarter, again emphasizing the forecast made in last month's report. Members continue to show considerable concern for the cost-profit squeeze.

	Better	Same	Worse
New Orders			
January	24	42	34
December	17	49	34
Production			
January	20	47	33
December	15	57	28

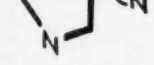
Purchasing executives remain very cautious in their buying policy, with only a few willing to lengthening of forward commitments. Inventories continue to decline, but at a slower rate than last

—Continued on page 50

REILLY NIACIN

U. S. P. Grade

TECHNICAL Grades

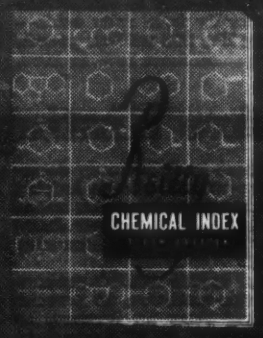


3-Cyanopyridine

Methyl Nicotinate

...Produced from Reilly's synthetic 3-Picoline, thus insuring continuity of supply

Send for your copy of the Reilly Chemical Index



Reilly CHEMICALS

REILLY TAR & CHEMICAL CORPORATION

MERCHANTS BANK BUILDING INDIANAPOLIS 4, INDIANA

Sales Offices in Principal Cities

PVC: The Decision Hurts

"Whose side is the government on anyway?"

The question, often asked on this side of the Atlantic following an unfavorable ruling by the Tariff Commission, is probably on the lips of Britain's plastics makers this week.

Their grievance: The UK Board of Trade has turned down a proposal by the British Plastics Federation to have imports of polyvinyl chloride branded as such.

In requesting a regulation that all foreign sheet be marked with the exporting country's name, the federation contended that consumers have a right to know whether the material conforms to British standards specifications.

The British consumer, it was argued, could not be sure he was getting material up to this standard unless foreign PPC was so marked.

But the argument failed to score with a standing committee handling the proposal for the Board of Trade.

The committee pointed out that most PVC was bought by processors or traders, with very little moving directly to the public. The former should know what they are buying, the committee indicated, and can decide whether the material is suitable.

In sum, the committee said, the trouble of branding the imports would not be worth whatever small benefits would accrue.

The rise in British imports of polyvinyl chloride, no doubt, is one of the chief causes behind this protectionist move of UK plastics makers.

Last year, imports accounted for about a fourth of PVC sales in Britain: 28,500 metric tons, compared with only 11,500 tons in 1959.

Plastics Engineers Are Told Of Strange Market Boosters: Bottles, Housings and Hinges

Market boosters in the plastics limelight this week are blow-molded bottles and, of all things, a housing for jet engines. The jet component won't have plastic sales charts dancing this year, and probably not the next, but it's said to point up a new field of plastic applications as replacements for metal alloys. Bottles and jets, along with other lively developments, such as a mysterious plastic hinge that strengthens with use, held the spotlight at last week's meeting of the Society of Plastics Engineers in Washington.

Sales of plastics for blow-molded bottles may double during 1961. This prospect, with the market for household cleaner containers prominent in the foreground, appeared in the crystal ball of William O. Bracken, sales development specialist for Hercules Powder Company.

Packages for Starches, Bleaches

High-density polyethylene and polypropylene, said Mr. Bracken, will soon be used in packaging household starches and bleaches — sooner than anticipated — and this is expected to give a handy lift to the plastics sales curve.

Improved manufacturing technics, he added, should open the way for even broader use of the materials, including the possibility of plastic refrigerators and deep freeze units.

Another factor in the market boost, it was noted, is a new development permitting production of multicolor polypropylene and polyethylene blown shapes.

"This," said Mr. Bracken, "should have a tremendous merchandising impact."

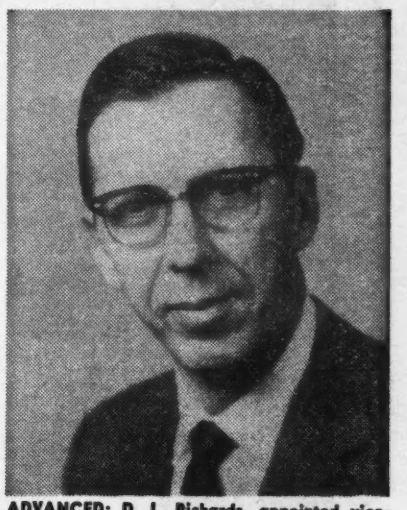
In a paper presented by C. H. Vondracek and R. N. Sampson, of Westinghouse Electric Corporation Materials Laboratory, details were revealed on a gas turbine compressor housing fabricated from high-temperature plastics rather than the traditional magnesium alloys.

Light weight, corrosion resistance and a price half that of conventional metals were cited as factors favoring the use of plastics in the jet engine field.

This impressive savings in cost, it was said, "is the result primarily of drastically reduced machining — possible because close tolerances can be achieved with plastics without the additional machining operations required by metal alloys."

In tests run by Westinghouse, a stand-

—*Continued on page 46*



ADVANCED: D. L. Richards, appointed vice-president of Carlisle Chemical Works, Inc., Reading, Ohio. He joined the company in 1946 as a salesman.

Nitrogen the Consistent Performer: 9 Percent Gains in Fertilizer Year

World production and consumption of nitrogen continues to expand at a uniformly high rate. For the fertilizer year 1959-60, production hit 12,294,000 metric tons, up 9 percent over the previous year and consumption reached 12,083,000 tons, also up 9 percent. The figures are reported by Aikman [London], Ltd., British fertilizer brokerage house. The gap between production and consumption narrowed to 2.2 percent during the latest crop year, Aikman reports, and therefore the carry-forward of stocks to 1961-62 is said to be more satisfactory from the producer's point of view.

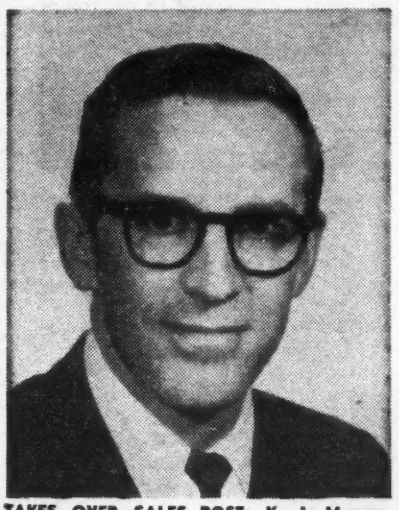
For this reason, Aikman goes on to say, there are distinct signs of a hardening in world market export prices.

Gap Seen Broadening Again

However, due to an anticipated sharp rise in production, the gap is expected to broaden again in 1960-61. Aikman estimates world production for the current year at 13,592,000 metric tons, a rise of nearly 1.5 million tons. But consumption is estimated at only 12,833,000 tons—hardly enough to absorb the rise in output.

Turning to current prices, Aikman reports the European market for ammonium sulfate at $29 to $30 a ton, up from $28 six months ago. Value of by-product am-

—*Continued on page 46*



TAKES OVER SALES POST: K. J. Morray, named sales manager of the silicone products department of General Electric Company in Waterford, N.Y.

McNeil Gets Procter Medal

Robert Lincoln McNeil, founder and retired president of McNeil Laboratories, received the Procter medal, the achievement award of the Philadelphia Drug Exchange, last week. Formal presentation of the award was made at the annual dinner of the drug trade association.

Glidden Is Acquiring Crane Co. Metals Unit

In a move to expand its operations in the metal powders field, Glidden Company has entered into a contract to purchase the assets of the metals division of Crane Company, Johnstown, Pa. Cost of the transaction was not disclosed.

Following the acquisition, which will become effective Wednesday (February 1), Crane's metals unit will become a part of the metals department of Glidden's chemicals division.

Carbon Black Facility Set to Rise in Venezuela

United Carbon Company has disclosed plans for construction of a $3 million carbon black plant in Venezuela. The unit, scheduled for completion late in 1961, will have an initial capacity of 20 million pounds a year.

Operating the plant will be a new corporation, United Carbon de Venezuela, CA, which in addition to United Carbon Company will have local stockholders.

A credit totaling $1.4 million has just been approved for the venture by the Export-Import Bank of Washington.

The plant, slated for the Valencia industrial area, which is the locale of four auto-tire manufacturing facilities, will employ about sixty persons at the start and turn out six major types of furnace blacks, for use by the tire manufacturers.

Armour Goes Deeper Into Fertilizer Business

Armour Agricultural Chemical Company has taken steps—via a major acquisition—to increase its stake at the finished product end of the fertilizer business. The Atlanta-based division of Armour & Co. last week acquired Ris-Van, Inc., of Belmond, Iowa, one of the midwest's leading producers of liquid mixed fertilizers.

Involved in the transaction were seven plants, located in Iowa and Minnesota. The acquisition was made from Stepan Chemical Company, which had operated Ris-Van as a wholly-owned subsidiary.

The present business will continue under the Ris-Van name as a division of

—*Continued on page 37*

FMC's Tinsley Is Installed As New SAACI President

Preston F. Tinsley of Food Machinery & Chemical Corporation's chlor-alkali division was installed as its new president last week by the Salesmen's Association of the American Chemical Industry.

The inauguration ceremonies, held at New York's Roosevelt hotel, included the induction of these new SAACI officers:

Vice-president, Charles E. Griffith of

—*Continued on page 43*

Association Meetings

ACHEMA 1961, German chemical engineering exposition and congress, Frankfurt am Maim, Germany, June 9-17.

American Chemical Society, national meeting, St. Louis, Mo., March 21-30.

American Coke & Coal Chemicals Institute, western regional meeting, Drake hotel, Chicago, February 9.

American Institute of Chemical Engineers, annual meeting and petrochemical exposition, Municipal Auditorium, New Orleans, La., February 25-March 1.

American Paper & Pulp Association, annual meeting, Waldorf-Astoria hotel, New York, February 19-23.

American Pharmaceutical Association, annual convention, Sherman hotel, Chicago, April 23-28.

American Society of Perfumers, annual symposium, Essex House, New York, April 13.

American Society for Testing Materials, committee week, Netherland Hilton hotel, Cincinnati, Ohio, January 30-February 3.

Chemical Buyers Group of the National Association of Purchasing Agents, mid-winter conference, Commodore hotel, New York, February 2.

Chemical Market Research Association, Shoreham hotel, Washington, D. C., February 15-17.

Chemical Specialties Manufacturers Association, midyear meeting, Drake hotel, Chicago, May 15-17.

Chemurgic Council, annual conference, Sheraton-Gibson hotel, Cincinnati, Ohio, April 12-14.

Commercial Chemical Development Association, annual meeting, Roosevelt hotel, New York, March 15-16; annual outing, Bedford Springs hotel, Bedford Springs, Pa., May 24-25.

Drug, Chemical & Allied Trades Association, annual banquet, Waldorf-Astoria hotel, New York, March 2.

Electrochemical Society, Claypool hotel, Indianapolis, Ind., April 30-May 4.

Flavoring Extract Manufacturers Association, annual meeting, Savoy-Hilton hotel, New York, May 14-17.

International Congress on Pure & Applied Chemistry, Montreal, Canada, August 6-12.

National Plant Food Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-14.

Pharmaceutical Manufacturers Association, central regional meeting, Edgewater Beach hotel, Chicago, February 13-15; western regional meeting, Ambassador hotel, Los Angeles, February 20-21; annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., April 30-May 3.

Plastics Exposition, sponsored by the Society of the Plastics Industry, Coliseum, New York, June 5-9.

Proprietary Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., May 14-17.

Society of Chemical Industry, American section, Perkin medal dinner, Waldorf-Astoria hotel, New York, February 3.

Society of the Plastics Industry, reinforced plastics conference, Edgewater Beach hotel, Chicago, February 7-9; western section conference, del Coronado hotel, Coronado, Calif., April 20-21; national conference, Commodore hotel, New York, June 5-9.

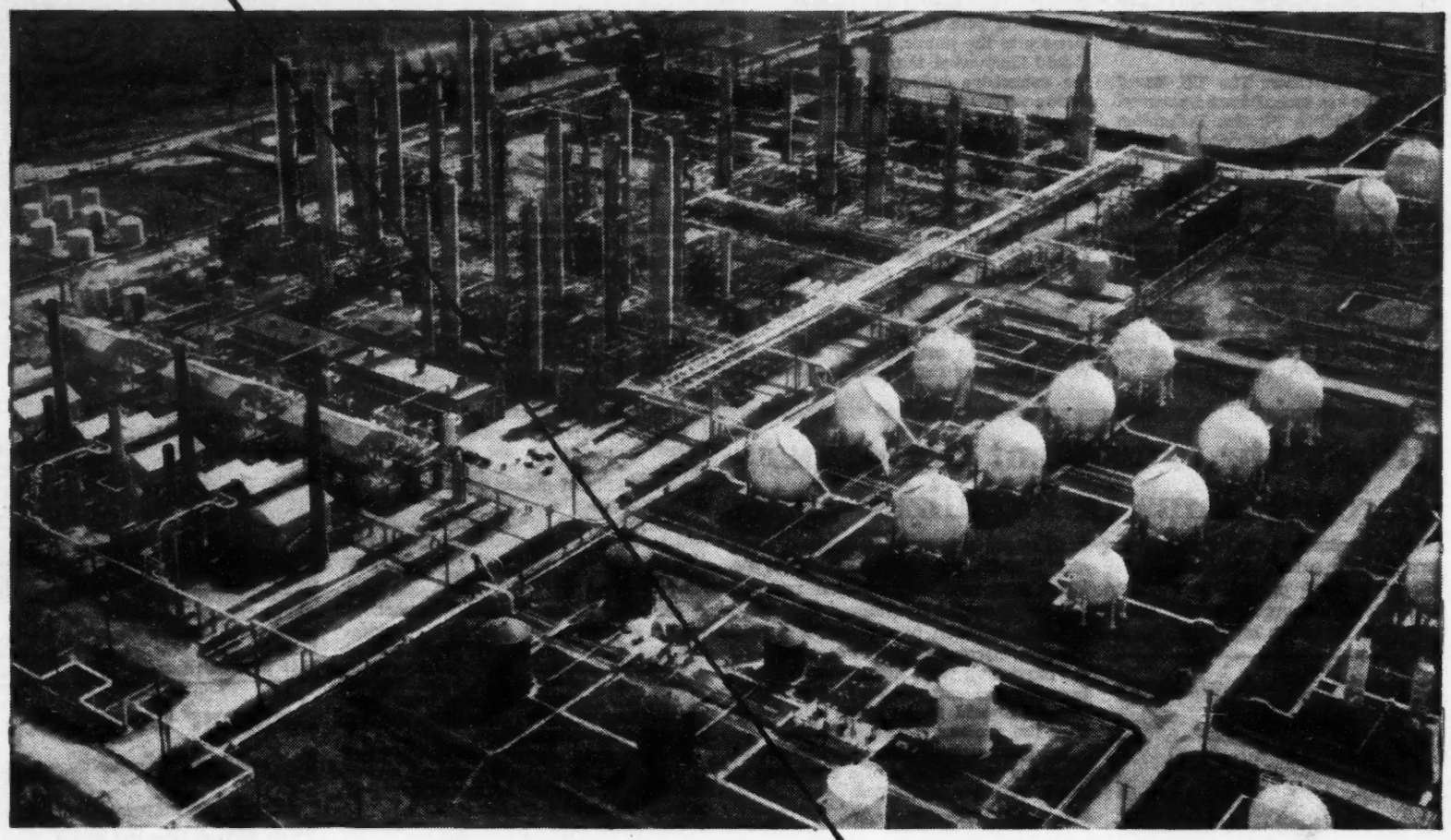
Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, February 16.

Technical Association of the Pulp & Paper Industry, annual meeting Commodore hotel, New York, February 20-23.

Toilet Goods Association, annual convention, Waldorf-Astoria hotel, New York, May 9-11.

Petro-Tex C_4 Hydrocarbons

Available in tank cars, tank trucks, barges and cylinders



BUTADIENE
Highest Commercial Quality from the World's Largest Non-Captive Production.

n-BUTENE-1
Highly reactive alphaolefin 95+% pure with low moisture.

n-BUTENE-2
Beta unsaturated olefin 95+% pure and virtually free of n-Butene-1 isomer.

DIISOBUTYLENE
Clear water-white mixture of 2,4,4-Trimethylpentene-1 and 2,4,4-Trimethylpentene-2.

TRIISOBUTYLENE
Clear water-white mixture of 2,2,4,6,6-Pentamethyl Heptene-3 and 2-Neopentyl-4, 4-Dimethyl Pentene-1.

ISOBUTYLENE
Major continuous production of 99+% pure material.

Petro-Tex®

TECHNICAL BULLETINS AVAILABLE ON REQUEST

BUTADIENE Comprehensive 48-page manual containing a wealth of basic technical data and valuable bibliography.

ISOBUTYLENE "Family Tree" Unique graphic presentation of all reported reactions having potential commercial significance, keyed to a bibliography of literature references.

HANDLING C_4 HYDROCARBONS Valuable compendium of data on handling and storage techniques, unloading methods and precautions with a resumé of applicable safety codes and governmental regulations.

TECHNICAL DATA "PACKAGE" Loose-leaf manual of specifications and physical properties on all Petro-Tex Chemicals. Should be in every research lab reference file.

PETRO-TEX CHEMICAL CORPORATION

8600 PARK PLACE, HOUSTON 17, TEXAS

JOINTLY OWNED BY
fmc FOOD MACHINERY AND CHEMICAL CORPORATION
TENNESSEE GAS TRANSMISSION COMPANY

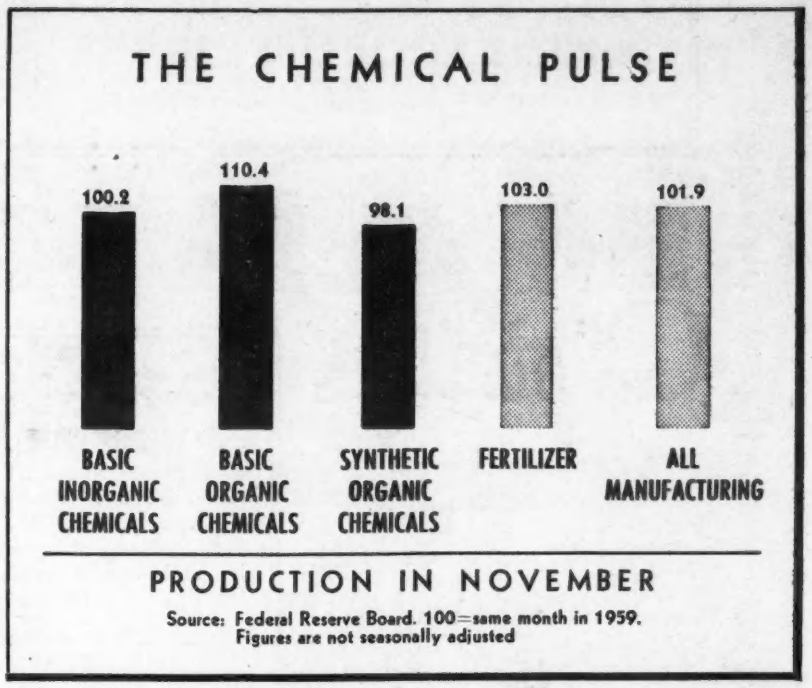
Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

Founded October 18, 1871 by William O. Allison
Directed 1900-1942 by Harry J. Schnell
EDITOR AND PUBLISHER: William S. Auchincloss
ASSISTANT PUBLISHER: J. Stuart Auchincloss
MANAGING EDITOR: Arthur R. Kavaler
TECHNICAL EDITOR: Edwin M. Fisher
NEWS EDITOR: Gene Gasteiger
OPD SPECIAL REPORTS: Don L. Richards
MARKETS: Andrew C. Barchi, John L. Casey, Richard Consolas, James Gubitosi, Jacqueline Hudgins, Harvey McCormick, Harry Van
IMPORTS: Mary Van Grieff
CONSULTING EDITOR: Hugh Craig
WASHINGTON EDITOR: Ralph L. Cherry, 956 National Press Building, Washington 4, D.C.
EUROPEAN EDITOR: Clare M. Cotton, 26A Wellington Road, London NW 8, England
SCHNELL PUBLISHING COMPANY, INC., 30 Church Street, New York 7, N. Y.
(RE 2-9820) Cable Address: Reporter, New York
PRESIDENT: William S. Auchincloss
VICE-PRESIDENT: Jean Schnell Auchincloss
TREASURER: William S. Auchincloss
ASSISTANT TREASURER: Ruth D. Johnson
SECRETARY: Anne L. Koch
ASSISTANT SECRETARIES: J. Stuart Auchincloss, Sara Jane Auchincloss

Copyright 1961 by Schnell Publishing Company, Inc.
Member of Audit Bureau of Circulations

Volume 179 | January 30, 1961 | No. 5



The Public Should Know

Local chambers of commerce and other business organizations throughout the country should participate actively in every respect in the seventh annual "Great Decisions" program of the Foreign Policy Association-World Affairs Center, which is to be conducted from February 5 through March 26. This program is designed to aid the people of this country toward a "better understanding of events and problems influencing their destiny" and to "face the problems of a changing world." The basic question which the people will be called upon to help to answer to the satisfaction of all concerned is: "How can the United States plan and act with the boldness, imagination and flexibility toward new factors that world leadership demands?"

This year's "Great Decisions" program comprises eight specific topics for discussion: (1) Deadlock over Germany; (2) Soviet Challenge and World Leadership; (3) France and Western Unity; (4) Japan—Future of an Asian Ally; (5) Rise of the African Personality; (6) The Americas in Jeopardy; (7) Arms and Survival; (8) Blueprints for the World Economy.

The program is designed for group study and debate, leading to individual decisions on the basis of fact sheets obtainable from the Foreign Policy Association—World Affairs Center, 345 East 46th Street, New York, 17, which has suggested that, for the implementation of the objectives of the program, individual participants transmit their opinions to their representatives in both houses of congress.

The federal legislators certainly need to know what their constituents think and desire with respect to things such as those covered by the FPA program. It can and will be good for business in many ways to have that need met as fully and satisfactorily as possible. That of itself—there are other good reasons—is why business should do everything that it can to assure the full success of the endeavor to provide its supporting public with useful knowledge with reference to matters of widely essential importance in many areas of public welfare.

For Balanced Education

Those who interest themselves in any manner and to any degree in the complicated subject of education have for quite some time been plagued with a deluge of all sorts of opinions, predictions and just plain "gab" on everything from federal subsidization to televisionary robotization of educational objectives and processes. They now have something of far broader pertinence and significance to puzzle over.

The president of Princeton University recently told a group of businessmen in Chicago that science education in colleges and universities "should not be over-emphasized at the expense of other fields of learning." Science's explosive growth and importance to national survival have created severe problems, he said, citing as one that the "manifest importance of science today will tend to distort the proper balance among the various branches of learning."

How the educational and other promoters of science will react to that sentiment remains to be seen. The Princeton executive called upon scientists and others to collaborate so that a "new and enlarged discourse may emerge among the various fields of learning."

Contributorially promising in that direction is the renewed promotion of activity on the part of the American Association for the Advancement of Science committee on science in the promotion of human welfare—an area of service in which chemistry has been particularly active and one that is not necessarily incompatible with the AAAS objective in providing thousands of public schools throughout the country with loans of its voluminous high-school and elementary science libraries.

There is still more encouragement for those who, motivated by what they read in the daily press about juvenile "delinquencies," feel that the humanities should get more and better attention in public school operations in the fact that the editorial page of the AAS official publication, *Science*, for January 20 is devoted to an article by a member of the staff of the American Museum of Natural History, with the title, "Human Study of Human Beings."

In educational and all other public practices, a properly balanced blend of physical and social sciences and the humanities as a whole should be most earnestly sought, developed and applied.

OPD'S BOOKSHELF

Pharmaceutical Directory

This annual directory for physicians* is a guide to pharmaceutical specialties and biologicals, listing the ethical drug products of leading pharmaceutical manufacturers. The current edition is published in six sections.

Section one lists alphabetically various pharmaceutical products by brand name and by company name, while section two handles the products according to major ingredients. Section three is a therapeutic index in which products are listed under the diseases or conditions for which they are indicated. Section four gives product identification; over 400 capsules and tablets are shown in color and actual size as an aid in their identification. Section five deals with professional product information. Under the alphabetical name of each manufacturer, the company's products are described. The final section deals with poisons and antidotes, including miscellaneous information.

* PHYSICIAN'S DESK REFERENCE, 1961. 940 pages. Medical Economics, Inc., Oradell, N. J.

Pigments

This volume, giving complete coverage on pigments and pigmented coatings, comprises the second in a two-volume set on organic coating technology.* It is designed to give the serious student and technician in the paint and raw material industries a concise but comprehensive manual on the chemistry, manufacture and applications of raw materials and finished pigmented paint products. Chapters and page numbers of both volumes run consecutively.

The phenomenon of color and its measurement is discussed, together with the relationship of hiding power of pigments and their physico-chemical characteristics. Included also is a basic discussion of surface active agents and their function in water and emulsion paint systems.

* ORGANIC COATING TECHNOLOGY, Volume II. By Henry Fleming Payne. 724 pages. John Wiley & Sons, New York. $17.20.

Washington Talks It Over

Maybe the Kennedy Administration Will Be Easier for Chemical Men to Get Along With Tariff-Wise: There Are No Concrete Moves As Yet But There Are Some Promising Indications.

By Ralph L. Cherry
Washington Editor

While it is, of course, too early to report any concrete moves in this direction, there are some pretty strong indications that the chemical industry may find the Kennedy administration a lot easier to get along with tariff-wise than was the departed Eisenhower regime.

This isn't to say that the new administration is any less liberal than was the Eisenhower administration on the desirability of reducing tariffs. The Democratic platform and staff studies made by Mr. Kennedy's advisers all show otherwise.

But there are signs that seem to indicate the new group is a little more aware of the effects of imports on employment and may be more inclined to give aid to the affected industries.

Two developments give support for this belief:

• At Mr. Kennedy's specific request, the senate commerce committee has made public a summary of a staff report still in the drafting stage advocating "adjustment assistance" for individual producers and workers "who encounter serious injury traceable to imports."

• Hidden away in the so-called depressed areas relief bill (S1), which has been given top priority by the Kennedy administration, is a provision almost completely overlooked, which ties the aid program to industries and areas hit by foreign competition.

While neither the staff report nor S1 propose increased tariffs as remedies for the injured industries, the fact that they give recognition to a connection between increased imports and unemployment is seen by chemical producers as a hopeful sign of a new policy in the making for industries hit by imports.

It is interesting to note that the chemical industry is providing the new administration with two opportunities to propound a new policy on tariffs.

The Tariff Commission will soon make a report to the White House of its study on the effect of tariff reductions or possible reductions on employment in the ultramarine blue and monochloroacetic acid producing industries.

Producers have told the commission employment has been hurt by imports and higher, rather than lower, tariffs are justified. They hope they don't go the way of the tartaric acid industry a few years back.

CHEMICALS AND RELATED MATERIALS

All matters under this heading fully protected by copyright.

Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, January 27 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil cns. lb. 1.90 2.40
Acacia (see Arabic gum).
Acetaldehyde, 99%, dms., c.l., frt. alld lb. .12 - —
dms., l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .10 - —
Acetaldehyde prices 1c. higher in West.
Acetaldol (see Aldol)
Acetanilide, tech., flaked, bbls., bgs., c.l., frt alld lb. .32½- —
bbls., bgs. ton lots, frt alld. lb. .33½- —
bbls., bgs., smaller lots, frt. alld lb. .36½- —
USP bbls. 225-lb dms. any quantity lb. .90 - —
100-lb. dms., any quantity lb. .92 - —
Acetic acid, coml., or redist., 28%, bbls 100 lbs 4.80 - —
56%, bbls. 100 lbs 8.25 - —
70%, bbls. 100 lbs 9.95 - —
80%, bbls. 100 lbs. 10.45 —
Acetic acid, glacial, syn., CP, dms., c.l., dlvd. E 100 lbs. 18.75 - —
tech., dms., c.l., dlvd. E. 100 lbs. 13.75 - —
dms., l.c.l., dlvd. E 100 lbs. 15.25 - —
tanks, dlvd. E 100 lbs. 10.00 - —
USP, tanks, dlvd. E 100 lbs. 13.00 - —
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. 16½- —
aluminum ret dms., l.c.l. dlvd E. lb. .18 —
tanks, dlvd E lb. 14 —
Acetic anhydride prices 1c. higher in West.
Acetoacetanilide, fib dms., c.l., dlvd lb. .80 - —
fib dms. l.c.l., dlvd lb .81 - —
Acetoacet-o-chloroanilide, fib dms., c.l., dlvd lb 1.35 - —
fib dms., l.c.l., dlvd lb 1.36 - —
Acetoacet-o-toluidide, fib dms., c.l., dlvd lb .82 - —
fib dms., l.c.l. dlvd lb .83 - —
Acetone, CP, dms., c.l., dlvd lb 10½- —
dms., l.c.l. dlvd lb .12 —
tanks, dlvd. lb. .08 —
Acetonitrile, dms., c.l., frt. alld lb. .34½- —
dms., l.c.l., frt. alld lb. .35 - —
tanks, frt. alld lb. .32 - —
Acetophenetidin, USP 200-lb. dms., 1,000 lbs., frt. alld lb. 1.20 —
100-lb dms. 1.000 lbs. frt alld lb. 1.22 —
Acetophenone, cns. dms lb .42 1.30
Tech., dms., c.l., works lb. .47 —
dms., l.c.l., works lb. .47¾- —
tanks, works lb. .45 - —
N-Acetyl-p-aminophenol, dms., t.l. (min 23.000 lbs.), frt. adjusted lb. 1.30 - —
dms., 1,000-lb. lots, same basis lb. 1.40 - 1.45
dms., 100-lb. lots, same basis lb. 1.54 - 1.57
Acetylene black, imp., bgs., c.l., duty and freight extra lb. .20 —
cs., l.c.l., ex whse lb. .25½- .31
Acetylene tetrabromide, 16-dm. lots or more, f.o.b. works lb. 53 —
Acetylsalicylic acid, USP, cryst. (20, 40 mesh), powd. (80 mesh), 250-lb. dms., c.l., pt. of shipt lb. .56¼- —
USP 10% starch granulation, 12-50 mesh, white, 250-lb. dms., c.l., same basis lb. .56½- —
(Pink and green granulations 5c. per lb. higher.)
Freight equald, shipt. identical quantity over standard routes, from N.Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms. c.l., frt. alld. E. of Denver lb. .35½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .36½- —
tanks. frt. alld. E. of Denver. lb. .33 —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39½- —
non-ret dms., l.c.l., frt. alld. E. of Denver lb. .40½- —
tanks. frt. alld. E. of Denver lb. .37 —

ACIDS

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Aconite root, bls lb .50 .55
Acrolein, tech., dms., c.l., works lb .36 —
dms., l.c.l., works lb. .36¾ - —
tanks, works lb. .31 —
Acrylamide, dms., t.l., f.o.b. works. lb. .58 - —
dms., t.t.l., same basis lb .60 - —
Acrylic acid, glacial, dms., c.l., t.l., dlvd lb. .42½- —
dms., l.c.l., l.t.l., dlvd lb. .43½- —
tanks, dlvd. lb. .40 —
tech., esterification, tanks, frt. and. lb. .38 - —
tech., polymerization, tanks, same basis lb. .38 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .26 - —
dms., l.c.l., l.t.l., frt. alld lb. .27 - —
tanks, frt. equald lb. .23 - —

Abies Siberica Oil—Ammonium Bicarbonate

Adeps lanae (see lanolin).
Adipic acid, bgs., c.l., dlvd. lb. .32¼- —
bgs., l.c.l., dlvd. lb. .35 —
Agar, USP Kobe No. 1, strip, bls. lb. 2.75 - 3.00
powd., 30 mesh., fib. dms lb 2.40 - —
dl-Alanine, dms. 100-lbs or more, f.o.b works lb 5.25 - —
dms. 1-99 lbs., same basis lb. 10.00 - —
Aldol, 95%, dms., t.c.l., works lb. .28 - —
Aldrin, tech. fib dms. c.l., t.l. dlvd lb. .99 - —
fib. dms., t.c.l. dlvd lb 1.04 - —

ALCOHOLS

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aletris root bgs lb 1.50 1.75
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies lb. 2.45 - —
Alkali blue prices 1c higher W of Rockies
Allethrin, 90%, dms., frt. alld lb. 28.80 -28.90
Soln., 20%, dms., 200-2,000 lb. lots, frt alld lb. 6.50 6.55
2½% dms. frt alld. lb. .95 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms., c.l. dlvd. lb. .32½- —
dms., t.c.l., dlvd. lb. .34 - —
tanks, dlvd. lb. .30 - —
Allyl bromide 55-lb cbys 5.005 lbs or more, works lb. 1.50 - —
55-lb. cbys., 1,045 to 4,... lbs. works lb. 1.55 - —
55-lb. cbys., 55 to 990 lbs works lb. 1.60 - —
Allyl chloride, dms., c.l., dlvd lb. 17½- —
dms., t.c.l., dlvd lb. .19 - —
tanks, dlvd lb. .15 - —
Allyl isothiocyanate (see Mustard Oil, syn.).
Almond oil, artif., bitter (see Benzaldehyde)
Almond oil nat., bitter, f.p.a., bots. lb 2.75 3.45
NF, bots. lb 3.00 3.30
sweet, USP, cns., dms. lb .70 1.30
Aloe, Cape, cs. lb. 35 ..40
powd, cs lb .60 .65
Curacao, kgs. lb. .75 - —
powd., kgs. lb. .85 - —

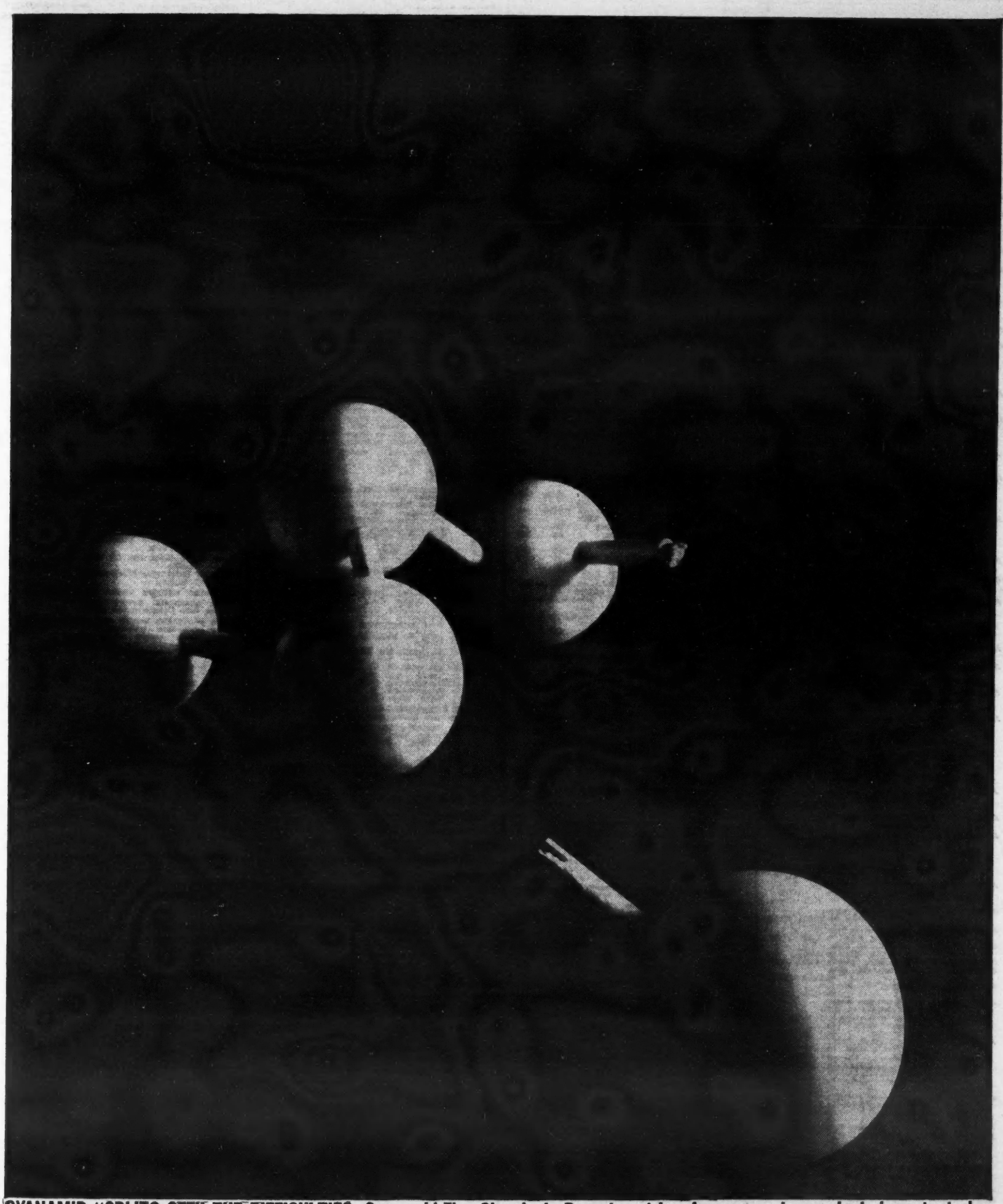
Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	No.	number
amorph	amorphous	djns.	demijohns	nom.	nominal
AMP	American melting point	dlvd.	delivered	o-	ortho
anhyd.	anhydrous	dms.	drums	ord.	ordinary
AOAC	Association of Official Agricultural Chemists	dom.	domestic	oz.	ounce
		E.	east	p-	para
		e.p.	end point	Pac.	Pacific
a.p.a.	available phosphoric acid	equald.	equalized	pf.	proof
approx.	approximately	exp.	expressed	phos.	phosphate
artif	artificial	Ext.	external	photo.	photographic
ASTM	American Society for Testing Materials	F.	fahrenheit	pkgs.	packages
		ferment.	fermentation	powd.	powdered
Atl.	Atlantic	f.f.a.	free fatty acid	precip.	precipitated
Be.	Baume	f.f.c.	free from chlorine	prod.	producer
bbls.	barrels	fib.	fiber	pt.	point
bgs.	bags	f.o.b.	free on board	pulv.	pulverized
bls.	bales	f.p.a.	free of prussic acid	purif.	purified
bots.	bottles	frt.	freight	redist.	redistilled
b.p.	boiling point	gal.	gallon	refd.	refined
b.p.l.	bone phosphate of lime	gran.	granular	refy.	refinery
		grd.	ground	reg.	regular.
b.r.	boiling range	i.&a.	iron and aluminum	resub.	resublimed
bxs.	boxes			ret.	returnable
C.	centigrade	i.b.p.	initial boiling point	SD	specially denatured
cbys.	carboys	imp.	imported	s.d.	single distilled
CD	completely denatured	incl.	included	S E.	southeast
		indust.	industrial	sec.	secondary
c.i.f.	cost, insurance, freight	kgs.	kegs	secs	seconds
		l-	laevo	s.g.	specific gravity
cks.	casks	lacq.	lacquer	shipt.	shipment
c.l.	carlots	lb.	pound	soln.	solution
cns.	cans	l.c.l.	less carlots	s.u.	standard unit
coml.	commercial	l.t.l.	less truckload	syn.	synthetic
conc.	concentrated	liq.	liquid	tanks.	railroad tankcars
CP	chemically pure	mfrs.	manufacturers	tech.	technical
cps.	centipoises	m-	meta	tert-	tertiary
cryst.	crystalline	m.a.p.	mixed aniline point	t.l.	truckloads
cs	cases	min.	minimum	t.w.	tankwagons
ctns.	cartons	m.p.	melting point	USP	U. S. Pharmacopoeia
cyls.	cylinders	N-	nitrogen		
d-	dextro	n-	normal	vis.	viscosity
dbl.	double	nat.	natural	VM&P	varnish makers & painters
denat.	denatured	neut	neutral		
dest-dist.	destructively—distilled	NF	National Formulary	W.	west
		NNR	New and Nonofficial Remedies	whse.	warehouse
dl-	dextro-laevo			w.w.	water-white
dist.	distilled				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Alcin, USP, bbls., dms., kgs. lb. 3.35 - 3.70
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
Lump, dms., works 100 lbs 5.05 - —
Powd. dms., works 100 lbs. 5.20 - —
USP, burnt., dms lb. .20 .21
hydrous, dms. lb. .07¾- .08
Alum potassium, gran., bgs. works. 100 lbs 4.55 —
Lump, dms., works 100 lbs 5.30 - —
Powd., dms., works 100 lbs. 5.45 —
USP, burnt., dms lb. .20 .21
USP hydrous, dms lb. .07¾- .08
Alum, potash-chrome, dms lb. .17 —
Alumina, calcined, bgs., c.l., works. lb. .0535- —
bgs., l.c.l., works lb. .056 .0635
Aluminum acetate, basic soln., 24%, bbls. l.c.l. works lb. .14 —
Aluminum chloride coml., anhyd., dms., c.l., works, frt. equald lb. .16 - —
dms., l.c.l. works lb. .16½- —
cryst., dms., c.l. works 100 lbs. 21.00 —
dms., l.c.l. works 100 lbs. 21.50 —
Soln., 32° cbys., c.l., works lb. .0495- —
cbys., l.c.l., works lb. .0570- .1095
tanks, works 100 lbs. 3.95 —
NF, gran., dms. works lb. .31 .32
Aluminum fluoride tech., anhyd., bgs., c.l., works lb. .16¼ —
bgs., l.c.l. works lb. .17¼- .19¼
bulk, c.l. basis 80% lb. .14½- —
Aluminum fluoride in fib. dms. 0.35c per lb. higher
Aluminum formate, basic soln., containers extra, c.l., works. 100 lbs. 11.00 - —
containers extra, l.c.l. works. 100 lbs. 11.50 —
Aluminum hydrate, heavy, bgs., c.l. frt. equald lb. .0370- —
bgs., 20,000-40,000 lb lots same basis lb. .0395- —
bgs., 2,000-20,000 lb lots same basis lb. .0495- —
bulk, c.l., same basis lb. .0330- —
Aluminum hydroxide, dried, USP XV, fib. dms., works lb. .82½- —
fib dms., contract, works lb. 79½- —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 - —
9-9½% Al_2O_3, fib dms. works. lb. .19 - —
fib. dms. contract, works lb. .18 - —
Aluminum hydroxide, tech., powd., (see Aluminum hydrate).
Aluminum metal, 99½% + 30-lb ingots, 10,000-lb lots, frt. alld lb. .2810- —
50-lb. pigs, 10,000-lb lots, frt alld. lb. .26 - —
Aluminum oxide, amorphous (see Alumina, calcined).
Aluminum paste lining, extra-fine, dms lb. .71 - —
Standard grade, dms lb. .48½- —
Aluminum powder, lining, extra-fine, dms lb. 1.13 —
Standard grade, dms lb. .83 —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c per lb. for 100-lb. dm., 1½c per lb. for 50-lb dm., 3c. per lb. for 10 lb. can and 5c to 12c. per lb. for smaller containers. Deduct 1c per lb. for single shipment of 400 to 1,499 lbs. 2c for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or more
Aluminum resinate, precip., 2.1% Al, dms lb. .45 - —
Aluminum stearate, dibasic, ctns., c.l lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Monobasic, ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Tribasic ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Aluminum sulfate, coml., grd., bgs. c.l., works, frt. equald ton. 41.00 - —
bulk, c.l., same basis ton. 40.00 - —
lump, bgs., c.l., same basis ton. 44.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.80 - —
bgs., l.c.l., works, frt. equald. 100 lbs. 4.30 - 8.30
USP, gran., 400-lb. dm., works. lb. .30 - —
USP, powd., dms., works lb. .27 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 6.50 -10.00
p-Aminoacetanilide, tech., paste, dms., frt. alld lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.35 - 1.60
Aminoazotoluene base, bbls., 100% basis lb. 1.15 - 1.18
p-Aminobenzoic acid, tech., dry., dms., works lb. 1.72 —
2-Amino-4-chlorophenol, tech., solid, dms., frt. alld. lb. 2.15 - 3.85
p-Aminodiphenylamine, tech., solid, dms., frt. alld lb. 3.00 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
dms., l.c.l., dlvd lb. .49 - —
tanks, dlvd. lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
dms., l.c.l., frt. alld lb. .45 - —
tanks, frt. alld. lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. lbs. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dm., frt. alld lb. 3.25 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb. 3.40 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald, E. of Rockies ton. 92.00 - —
refrigeration, tanks, works, frt. equald, E. of Rockies ton. 94.50 - —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies. ton. 95.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal., gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
bgs., l.c.l., same basis 100 lbs. 8.65 -12.65
Ammoniac, sal., white (see Ammonium chloride, tech.)
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, 100-lb. dms., 1,000-lb. lots, works. lb. 1.90 - —
Ammonium biborate, gran., dms., c.l., works ton. 325 - —
dms., ton lots, ex whse. 100 lbs. 22.86 - —
dms., smaller lots, ex whse. 100 lbs. 24.11 - —
Ammonium bicarbonate, dom., dms., c.l., works 100 lbs. 7.00 - —
dms., l.c.l., works 100 lbs. 9.00 - —



CYANAMID "SPLITS OFF" THE DIFFICULTIES. Cyanamid Fine Chemicals Department has become an increasingly important element in the marketing plans of pharmaceutical manufacturers. Assurance of uniformity and top quality in materials helps protect against the possibility of variations in properties and potency, or instability in the final formulation. Our clients appreciate and look for the extra security which comes from Cyanamid reliability... just as they frequently seek the help we can give in any phase of production, through our complete custom synthesis service. Vitamins, sulfonamides, antibiotics, non-inhibitory intrinsic factor concentrate, other bulk pharmaceuticals and cosmetic chemicals. Complete custom synthesis service.

CYANAMID | AMERICAN CYANAMID COMPANY · FINE CHEMICALS DEPARTMENT/Pearl River, New York.

Ammonium bichromate, dms., works	lb	.42	.43
Ammonium bifluoride dms., dlvd	lb	2145-	.2245
Ammonium bromide, NF gran., dms., c.l. t.l. frt equald	lb	44	—
dms. l.c.l. same basis	lb	46	—
Ammonium carbonate, USP lump, dms. c.l	lb	15½-	—
Ammonium chloride, white tech., fine gran. bgs. c.l. works 100 lbs		6.00	—
bgs. l.c.l., works 100 lbs		8.00	8.45
USP gran. 250-lb drm	lb	17¼	—
Ammonium citrate dibasic, 250-lb. dm f.o.b works	lb	.77	—
Ammonium dichromate (see Ammonium bichromate)			
Ammonium fluoride (see Ammonium bifluoride)			
Ammonium gluconate tech. 300-lb dm. f.o.b works E	lb	.45	—
Ammonium hydroxide (see Ammonia aqeous)			
Ammonium iodide, NF, 25-lb. jar, f.o.b works	lb	4.26	—
Ammonium lauryl sulfate, dms., c.l., frt. alld	lb	20½-	—
dms. t.t.l. frt alld	lb	21½-	—
tanks frt alld	lb	19½-	—
Ammonium lignin sulfonate, bgs., c.l. works 100 lbs		3.25	—
bgs. t.c.l., works 100 lbs		3.40	3.65
Ammonium linoleate 80%, dms., works	lb	.50	.55
Ammonium molybdate, CP, cryst., 400 lb dms. 15,000-lbs works	lb	1.22	—
400-lb dms. 2,000-lb contracts works	lb	1.23	—
400-lb dms. works	lb	1.24	—
Ammonium nitrate, dom., fertilizer grade 33.5% N bgs. f o b works	ton	67.00	—
Ammonium nitrate, dom., with dolomite 20.5% N, bgs. c.l., Hopewell, Va	ton	48.00	—
Imp. Canadian, 33.5% N eastern, bgs c.l., ship't point frt. equald to $3 ton base price	ton	70.00	—
Ammonium oxalate, tech., fine gran. 250-lb dm. f.o.b works E	lb	28½-	—
Tech. powd. 200-lb dm., same basis	lb	28½-	—
Ammonium pentaborate, gran. bgs., c.l. works	ton	193.00	—
bgs., ton lots, ex whse., 100 lbs.		15.27	—
bgs. smaller lots, ex whse 100 lbs.		16.52	-18.52
Ammonium pentaborate powder $10 per ton higher in bags			
Ammonium persulfate, tech., dms., 10-ton lots or more, works	lb	.18	—
dms. smaller lots, works	lb	.20	.23
Ammonium phosphate, comi., bgs., c.l., works, frt. equald	lb	.09¼-	—
bgs. l.c.l., same basis	lb	.10	—
Dibasic NF, V, bbls., dms	lb	.46	—
Dibasic, tech. bgs. c.l. works, frt. alld	lb	.09¼-	—
Ammonium silicofluoride, dms., works	lb	12¼	.13¾
Ammonium sulfamate bgs. c.l., t.l., works	lb	.19	—
bgs. l.c.l. works	lb	20½-	.27
Ammonium sulfate standard granular bulk f.o.b works, base price	ton	32.00	—
Ammonium sulfate, standard, gran., purif., c.l., 100-lb bgs., f.o.b works	lb	08½-	—
Large granular bulk c.l. works	ton	35.00	—
bgs. c.l. works	ton	40.00	—
Tech. bulk c.l. t.l., works	ton	52.00	—
bgs. c.l., t.l., works	ton	56.00	—
bgs. l.c.l. t.t.l. works 100 lbs		3.20	5.20
Ammonium sulfide, liq., 40-44%, tanks frt equald, 100% basis	ton	160.00	—
Ammonium sulfocyanide, tech. (see Ammonium thiocyanate)			
Ammonium thiocyanate, tech. cryst. dms. c.l. works	lb	.20	—
dms. l.c.l. works	lb	.22	.26
Tech, soln., 50%, tanks, frt. equald., basis ammonium thiocyanate content	lb	.17¼-	—
Ammonium thioglycolate, comi., 55-gal. drms., ton lots, 100% basis	lb	1.15	—
d-Amphetamine hydrochloride, monobasic, dms	lb	17.50	23.50
dl-Amphetamine hydrochloride, dibasic dms	lb	4.50	6.00
d-Amphetamine phosphate, fib dms., 100-lb lots	lb	15.00	—
dl-Amphetamine phosphate, dms.	lb	4.20	5.60
d-Amphetamine sulfate, fib. dms.	lb	15.00	-17.00
dl-Amphetamine sulfate, fib. dms.,	lb	4.20	5.60
Amyl acetate ex fusel oil, tech., dist from 125° to 150°C., dms. c.l., frt alld E of Rockies	lb	.18½-	.19
dms l.c.l. same basis	lb	.20	.20½
tanks, same basis	lb	.16	.16½
Amyl acetate ex pentane, reg., dms., c.l., dlvd	lb	.19	—
dms. l.c.l. dlvd.	lb	.21½-	—
tanks, dlvd.	lb	.16½-	—
tech dms. c.l. dlvd.	lb	.17	—
dms l.c.l., dlvd.	lb	.18½-	—
tanks dlvd	lb	.14½-	—
Amyl acetate syn. oxo process, dms., c.l., dlvd	lb	.19	—
dms., c.l. dlvd	lb	.20½-	—
tanks, dlvd	lb	.16½	—
Amyl alcohol ex fusel oil (see Fusel oil refd).			
Amyl alcohol, ferment, refd., 128° 132°C., dms., l.c.l., dlvd	lb	.43½-	—
refd., ACS grade, dms., l.c.l., dlvd	lb	45½-	—
ex pentane, mixed amyls, dms., c.l., frt. alld	lb	.19	—
dms., t.c.l. frt. alld	lb	.20½-	—
tanks frt alld	lb	16½-	—
Amyl alcohol primary, dms., c.l., frt. alld	lb	.20¼-	—
dms., t.c.l. frt alld	lb	.21¾-	—
tanks, frt alld	lb	.17¼-	—
Sec-synthetic dms. c.l., works, frt. alld	lb	.19	—
dms. t.c.l., same basis	lb	.20½-	—
tanks, same basis	lb	.17	—
Tert-synthetic, dms., c.l. frt. alld. E	lb	.17	—
dms. t.c.l. frt. alld E	lb	.18½-	—
tanks frt alld E	lb	.14½-	—
Amyl alcohol 1-pentanol (syn. normal), dms., c.l., works	lb	.41½-	—
dms. l.c.l., works	lb	.43	—
tanks, works	lb	.39½-	—
3-pentanol, dms., c.l., works	lb	.65	—
dms. l.c.l., works	lb	.70	—
tanks, works	lb	.60	—
Amyl n-butyrate dms.	lb	1.00	1.25
Amyl cinnamic aldehyde dms	lb	1.70	2.20
p-tert Amyl phenol, dms. c.l., works,	lb	.28	—
dms., l.c.l., works	lb	.29	—
Amyl salicylate, cns., dms.	lb	.71	—
Amyris oil, dms	lb	1.50	—
Anethol, tech., dms.	lb	.80	.93
USP, cns., dms.	lb	1.05	—
Angelica root, bls	lb	.50	1.00
Angelica root oil, bots	lb	120.00	140.00
Angelica seed oil, bots	lb	120.00	130.00
Aniline dms., c.l., frt. alld	lb	.20	—
dms., l.c.l., frt. alld.	lb	.21	—
tanks, frt. alld.	lb	.18	—
Aniline oil (see Aniline).			
Aniline salt, dms., c.l. t.l., 20,000 lbs min., frt alld	lb	.33	—
dms., l.c.l., same basis	lb	.35	—
Anise oil, USP, dms	lb	1.90	- 3.00
Anise seed, Mexican, bgs	lb	.24	—
Spanish, bgs.	lb	.24	—
Anisic aldehyde, dms	lb	1.50	2.20
o-Anisidine, dms., c.l., frt. alld	lb	.80	—
dms., l.c.l., same basis	lb	.82	—
tanks, same basis	lb	.78	—
p-Anisidine, dms., works	lb	.97	—
Anthracene, 90-95%, dms., c.l., t.l. f.o.b., works	lb	.42½-	—
dms., l.c.l., minimum shipment 1,000 lbs., same basis	lb	.45	—
Anthranilic acid, 99% 150-lb. dms., dlvd	lb	1.15	—
Anthraquinone, 99.5% bgs., c.l., frt alld	lb	.70	—
bbls., l.c.l., same basis	lb	.73	—
Electrical grade, bgs. l.c.l., same basis	lb	1.10	—
Antimony butter (see Antimony trichloride).			
Antimony metal, bulk, c.l., mines	lb	.29	—
cs., c.l., mines	lb	29½-	—
Antimony oxide, bgs., c.l., frt. alld.	lb	.26½-	—
bgs., l.c.l., frt. alld.	lb	.28	—
Prices of antimony oxide are 2% higher west of the Rockies.			
Antimony sulfide, approx 65%, bgs., 10,000-lb. lots, dlvd	lb	.23	—
bgs., smaller lots, dlvd	lb	.24	.26
Antimony trichloride, anhyd., solid, pails, c.l., works	lb	.41	—
pails, l.c.l., works	lb	.43	—
Antimony-potassium tartrate, tech., powd., 250-lb., dm., f.o.b. works, E	lb	.69½-	—
USP, powd., 250-lb dm. same basis	lb	74½-	—
Apomorphine hydrochloride, USP, bots., 25-oz. lots	oz.	35.60	—
Apricot kernel oil, USP, dms	lb	.55	70
Arabic gum, amber sorts, 10 bgs.	lb	.21	- .23
USP, powd., bbls	lb	.27	- .30
Areca nuts, powd., bbls.	lb	.13	—
Arecoline hydrobromide, NF, bots., tins, 100 oz. or more	oz.	4.00	—
l-Arginine, free base, dms., 10-kilo lots or more	kilo.	90.00	—
l-Arginine glutamate, dms., 10-kilo lots or more	kilo.	64.80	—
l-Arginine monohydrochloride, dms., 10-kilo lots or more	kilo.	60.00	—
Arnica flowers (true Montana), bls.	lb	.75	—
Aromatic petroleum solvents (see Solvent Naphtha, petroleum, aromatic).			
Arsenic, crude (95%), bulk, c.l., works	lb	.016	—
bbls., c.l., works	lb	.0.31	—
Arsenic trioxide, NF, powd., dms., 300-lbs., f.o.b works	lb	.48	—
Arsenic, white, powd., bbls., c.l., works	lb	.04½-	—
bbls., l.c.l. works	lb	06½-	.07¼
Arsenous acid, tech. (see Arsenic, white).			
Arsenous acid, USP (see Arsenic trioxide).			
Arylid maroons, deep shades, bbls.	lb	3.70	—
Light shades, bbls.	lb	2.85	—
Asafetida gum, cns	lb	.36	.40
Powd., bbls., dms	lb	.75	.80
Asbestine (see Talc fibrous, New York).			
Asbestos, Canadian crude 6D, c.l. (30 tons), mines	ton	86.00	—
7D, c.l (30 tons), mines	ton	75.00	—
7F, c.l (30 tons), mines	ton	71.00	—
7H, c.l (30 tons), mines	ton	61.00	—
7K, c.l. (30 tons), mines	ton	50.00	—
7M, c.l. (30 tons), mines	ton	44.00	—
7R, c.l. (30 tons), mines	ton	43.00	—
7RF, c.l (30 tons), mines	ton	44.00	—
7T, c.l. (30 tons), mines	ton	41.00	—
7TF, c.l. (30 tons) mines	ton	44.00	—
Asbestos prices are in Canadian funds; t.c.l. lots $4 per ton higher			
Ascorbic acid, USP dms., 100-kilos.	kilo.	6.80	—
dms., less than 100-kilos	kilo.	7.05	—
Ash, black (see Barium sulfide)			
Asphalt, gilsonite, black jet, bgs., c.l., mines	ton	43.00	—
ex-whse, 5 tons or more, N. Y., N. J	ton	89.50	—
select, brilliant black, 340°-360°F. fusing pt., bgs., c.l., mines,	ton	46.00	—
270°-295°F fusing pt., bgs., c.l., mines	ton	43.00	—
Asphalt, petroleum, cut-back, tanks, tankwagon, refy	gal.	.09½-	—
emulsion, tanks, tankwagon refy	gal.	09½-	—
steam-refd., 50-80 penetration, tanks, tankwagon, refy	ton	21.00	—
85-300 penetration, tanks, tankwagon, refy	ton	20.00	—
Aspirin (see Acetylsalicylic Acid)			
Atropine, NF, tins	oz.	6.50	- 7.50
Atropine sulfate USP, bots	oz	5.25	5.75
Azelaic acid, bgs., c.l., dlvd.	lb	.40	—
bgs., ton lots same basis	lb	.41	—

B

Bacitracin, bulk, 1,000,000,000 or more units		50.000 units	.65 —
less than 1,000,000,000 units,		50,000 units	.70 —
Balm of Gilead buds, dried, bgs	lb	1.25	1.35
Barberry root bark, bgs	lb	1.00	1.10
Barbital, NF, 100-lb dms., f.o.b. works	lb	4.50	—
Barbital sodium, NF, 100-lb dms.	lb	4.75	—
Barium carbonate, precip., bgs., c.l., works	ton	111.50	—
bgs., smaller lots, works	ton	126.50	—
Barium chlorate, dms., works	lb	32	.41
Barium chloride anhyd., bgs. c.l., works	ton	176.00	—
bgs., t.c.l., works	ton	196.00	—
NF, cryst., dms., 400-lbs., works	lb	.23	—
Tech., cryst., bgs. c.l. works, 100 lbs		7.00	—
bgs., t.c.l., works 100 lbs		8.00	—
Barium chromate, bgs., frt. equald.	lb	.38	—
Barium dioxide (see Barium peroxide).			
Barium hydrate, cryst., bgs., c.l., t.l., frt. equald	ton	208.00	—
bgs., t.c.l., t.l., frt equald	ton	218.00	—
Barium monohydrate, 99%, bgs., c.l., frt. equald 100 lbs.		11.25	—
bgs., t.c.l., frt. equald 100 lbs.		11.75	—
Barium monoxide (see Barium oxide).			
Barium nitrate, bbls., c.l., t.l., dlvd.	lb	.16	—
bbls., l.c.l., t.t.l., dlvd.	lb	.17	—
Barium oxide, grd., dms., c.l., t.l., frt equald	ton	275.00	—
dms., l.c.l., t.t.l., frt. equald.	ton	285.00	—
Barium peroxide, dms., frt. equald.	lb	.20	—
Barium stearate, ctns., c.l., frt. alld.	lb	.41	—
ctns., l.c.l, same basis	lb	.43	—
Barium sulfate, tech. (see Barytes and blanc fixe).			
Barium sulfate, X-ray, 100-lb. dm.	lb	.19	—
Barium sulfide, dms., c.l., works	ton	100.00	—
dms., l.c.l., works	ton	110.00	—
Barytes, southern off-color, bgs. mines	ton	30.00	—
95-75%, bgs., mines	ton	30.00	—
white, water-grd paper bgs. c.l. St. Louis	ton	60.00	-60.25
paper bgs. ex whse New York	ton	84.85	—
Battery acid, cbys., c.l., works & 100 lbs		2.35	—
cbys, l.c.l., works, E	100 lbs	2.65	-10.95
Bauxite, bulk, mines	ton	7.00	-10.00
Bay oil NF Puerto Rican 50-55% cns	lb	3.25	—
55-60%, cns.	lb	3.60	—
NF, West Indian, 50-55% cns.	dms	3.75	—
Bayberry wax, bgs	lb	.65	.70
Beeswax, crude, African, bgs	lb	.54	.55
Brazilian, bgs.	lb	.58	.59
Central American, bgs.	lb	.57	.58
Chilean, bgs	lb	.59	Nom
Refd. USP bleached white, bricks 100-lb. ctns	lb	.67	.69
white, slabs, 100-lb. ctns	lb	.66	.68
yellow, bricks, 100-lb ctns	lb	59	.61
yellow, slabs, 100-lb. ctns	lb	58	.60
Belladonna leaf, bls.	lb	.24	.26
Belladonna root, bls.	lb	28	.35
Bentonite, dom 200 mesh, bgs. c.l. mines	ton	14.00	—
Imp. Italian, white, high gel., bgs., 5-ton lots, ex whse	ton	95.20	—
bgs., 1-ton lots, ex whse	ton	99.00	—
Imp. Italian, white, low gel., bgs., 5-ton lots, ex whse	ton	93.40	—
bgs., 1-ton lots ex whse	ton	97.16	—
Benzal chloride, cbys., works	lb	.44	—
Benzaldehyde, NF, dms	lb	.80	1.05
Tech., dms., c.l., t.l.	lb	.47	—
dms. l.c.l.	lb	.48	—
Benzene, pure or nitration, tanks, works: Baton Rouge, La	gal.	.34	—
Bethlehem, Pa	gal.	.34	—
Birmingham district	gal.	.34	—
Chicago district	gal.	.34	—
Cleveland district	gal.	.34	—
Geneva, Utah	gal.	.34	—
Houston, Tex.	gal.	.34	.40
Johnstown, Pa	gal.	.34	—
Benzene, pure or nitration, tanks, works: Lorain, Ohio	gal.	.34	—
Middletown, Ohio	gal.	.34	—
Mennequa, Colo.	gal.	.34	—
Philadelphia district	gal.	.34	—
Pittsburgh district	gal.	.34	—
Port Arthur, Tex.	gal.	.34	—
Benzene, pure or nitration, tanks, works: St. Louis, Mo. District	gal.	.34	—
Sparrows Point, Md.		.34	—
Syracuse, N. Y.	gal.	.34	—
Terre Haute, Ind	gal	.34	—
Youngstown, Ohio	gal.	.34	—
Lackawanna, N. Y.	gal	.34	—
Lone Star, Tex	gal.	.34	—
Benzene hexachloride 25% and 99% gamma isomer (see Lindane).			
Benzene hexachloride, tech., high gamma, bgs., c.l. t.l. consignment, dlvd. gamma-unit		.0075	—
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit		.0065-	—
Tech., low gamma, bgs., c.l., t.l., consignment, dlvd gamma-unit		.0075-	—
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit		.0056-	—
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis	lb	1.19	—
bbls., l.c.l., same basis	lb	1.21	—
Benzidine sulfate, tech., bbls., frt. alld., 100% basis	lb	1.21	—
Benzidine yellow, AAA, bbls., dlvd.	lb	2.20	—
AAOT, bbls., dlvd.	lb	2.55	—
Lightfast, bbls., dlvd.	lb	3.40	—
Benzocaine, dms., 100-lbs., frt alld.	lb	3.25	—
Benzoic acid, tech., dms., c.l., t.l., frt. alld	lb	.25	.37
dms., l.t.l., same basis	lb	.29	.41
tanks, same basis	lb	.21	—
USP, bbls., dms., ton lots	lb	.48	—
bbls., dms., 1,000-lb lots	lb	.50	—

BENZOL

Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzoin gum, Sumatra, cs.	lb	.32	—
Benzophenone, dms	lb	1.35	- 1.40
Benzotriazole, tech. dms., 1,000-lb lots, works	lb	1.95	—
Benzotrichloride, cbys., 5,000-lb lots or more, frt. equald	lb	.21	—
cbys., smaller lots, frt. equald	lb	.23	—
Benzoyl chloride, cbys. dms., c.l., works, frt. equald	lb	.22	—
cbys., t.c.l., same basis	lb	.23	—
tanktrucks, dlvd Metropolitan area	lb	.21	—
Benzoyl peroxide, purif., fib. dms., 50 to 1,000-lb lots, works	lb	.98	1.08
Benzyl acetate, f.f.e., cns., dms	lb	.54	—
Benzyl alcohol, NF, dms	lb	.54	—
Tech., dms dlvd	lb	47½-	.65
Benzyl benzoate, USP, 40-lb dms.	lb	.62	—
Benzyl chloride, tech., dms., c.l., f.o.b. frt. equald	lb	.23	—
dms., l.c.l., same basis	lb	.24	—
tanktrucks, dlvd., Metropolitan area	lb	.21	—
Benzyl cinnamate, cns.	lb	3.30	3.60
N-Benzyl-N,N-dimethylamine, 50 dms., frt. alld	lb	1.25	—
12-49 dms. same basis	lb	1.35	—
1-11 dms., same basis	lb	1.90	—
Benzyl formate, cns.	lb	1.70	- 1.85
Benzyl isoeugenol, cns	lb	8.20	- 8.30
Benzyl propionate, bots	lb	1.30	- 1.35
Benzyl salicylate, bots	lb	1.50	- 1.85
Benzylidine acetone, bots	lb	1.65	- 1.75
Benzylidine chloride (see Benzal chloride).			
Berberine bisulfate, cns	lb	56.50	—
Berberine hydrochloride, bots	lb	56.50	—
Bergamot oil, nat. NF Italian, cns.	lb	11.00	-12.00
Betagammapicoline (see b,g-Picoline).			
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).			
Betamethylnaphthalene (see Methylnaphthalene)			
Betanaphthol (see b-Naphthol)			
Betanaphthylamine (see b-Naphthylamine)			
Betaoxynaphthoic acid (see b-Oxynaphthoic acid).			
Betaphenylethylamine (see b-Phenylethylamine).			
BHC (see Benzene hexachloride, tech.).			
Biotin, cryst. bots	gram	10.00	—
Biphenyl (see Diphenyl).			
Birchtar oil, crude, cns.	lb	1.50	1.90
Rectified, cns.	lb	1.75	2.00
Bismuth chloride, jars	lb	5.11	—
Bismuth hydroxide, dms	lb	4.60	4.68
Bismuth metal bxs., ton lots	lb	2.25	—
Bismuth nitrate, cryst., 250-lb. dm.	lb	2.25	—
Bismuth oxychloride, 25-lb. dm., f.o.b. works	lb	4.43	—
Bismuth subcarbonate, USP 150-lb. dm	lb	3.70	—
Bismuth subgallate, NF, 200-lb dm. f.o.b. works	lb	3.98	—
Bismuth subiodide fib dms	lb	5.37	—
Bismuth subnitrate, NF, 200-lb. dm., f.o.b. works	lb	3.15	—
Bismuth subsalicylate, USP, 100-lb. dm., f.o.b. works	lb	4.15	—
Bismuth trioxide 100-lb. dms., t.o.b works	lb	4.40	—
Bismuth-ammonium citrate, USP, powd., jars	lb	4.22	—
Bisphenol-A bgs., c.l., t.l., single shipt., 70,000-lbs or more, frt. alld	lb	.30½-	—
bgs. c.l., t.l. less than 70,000 lbs., same basis	lb	.31	—
bgs., l.c.l., same basis	lb	.32½-	—
Blackberry root bark, bls	lb	.50	.55

BLACK PIGMENTS

Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.

Blanc fixe direct process, bgs. c.l., works	ton	160.00	—
bgs., t.c.l., works	ton	170.00	—
bgs., l.c.l., New York whse	ton	215.00	—
Blood dried 16-16½% ammonia, bgs., New York unit-ton		5.50	—
Bloodroot, bls.	lb	.85	.90

BLUE PIGMENTS

Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

Blue dyes (see Dyes)			
Blue vitriol (see Copper sulfate)			
Bois de rose oil, Brazilian, dms	lb	2.05	—
Peruvian, dms.	lb	1.65	—
BON acid maroons, pure, bbls	lb	1.75	—
Resinated, bbls.	lb	1.50	—
Bone black, dms., c.l., frt. alld	lb	.1750-	.2225
l.c.l., works	lb	.1950-	.2425
Pacific coast bone black prices 3¼c. per lb higher			
Bonemeal, steamed works, &	ton	80.00	—
Bone phosphate, defluorinated, of lime (see Defluorinated phosphate).			
Bone phosphate, precip (see Calcium phosphate, tribasic)			
Borax, tech, anhyd., 99½%, bgs., c.l., works	ton	92.00	—
bgs. ton lots, ex whse, New York or Chicago		7.67	—
bgs. smaller lots same basis		8.91	-10.91
bulk, c.l., works	ton	83.00	—
Borax, tech., gran., decahydrate, 99½% bgs. c.l., works,	ton	50.00	—
bgs. ton lots, ex whse, New York or Chicago		5.31	—
bgs smaller lots same basis		6.56	- 8.56
bulk c.l., works	ton	43.50	—
pentahydrate, 99½%, bgs., c.l., works	ton	64.50	—
bgs. ton lots, ex whse, New York or Chicago		6.12	—
bgs. smaller lots same basis		7.37	- 9.37
bulk, c.l., works	ton	58.00	—
USP powd. bgs. c.l. works,	ton	54.00	—
bgs ton lots, ex whse New York or Chicago		6.57	—
bgs. smaller lots, same basis		7.82	- 9.83
Bordeaux powder tribasic bgs. c.l., dlvd	lb	.24	—
bgs. t.c.l., same basis	lb	.26	—
Boric acid, tech. anhyd. 99.9% bgs., c.l., works	ton	135.00	—
bgs. ton lots, ex whse, New York or Chicago		21.27	—
bgs. smaller lots same basis		22.52	-24.52
cryst. 99.9% bgs. c.l. works	ton	163.50	—
bgs. ton lots, ex whse, New York or Chicago		11.67	—
bgs. smaller lots, same basis		12.92	-14.92
Boric acid, tech., cryst., 99.9% dms., c.l., works	ton	188.50	—
dms., ton lots, ex whse., New York or Chicago		13.17	—
dms., smaller lots, same basis		14.42	—
Boric acid, gran., 99.9%, bgs., c.l., works	ton	112.00	—
bgs. ton lots ex whse New York or Chicago		8.78	—
bgs smaller lots, same basis		10.03	-12.03
dms. c.l. works	ton	137.00	—
dms., ton lots, ex whse, New York or Chicago		10.29	—
dms. smaller lots same basis		11.54	—
bulk, c.l. works	ton	106.00	—
powd., bgs., ton lots, ex whse., New York or Chicago		9.20	—
bgs. smaller lots same basis		10.45	-12.45
dms., ton lots, ex whse., New York or Chicago		10.71	—
dms., smaller lots, same basis.		11.96	—
USP boric acid $25 per ton higher in bags.			
Borneol, cns.	lb	2.75	—
Boron trichloride, CP, 1,800-lb. cyls., works	lb	1.25	—
100-lb cyls. works	lb	1.70	—
Boron trifluoride, gas, cyls., t.l., works	lb	.70	—
cyls., t.t.l. works	lb	.70	—
Brimstone (see Sulfur).			
Broenner's acid, bbls	lb	1.53	—
Bromine purif., cs. c.l., t.l., dlvd. E of Rockies	lb	.32	—
cs., t.c.l. same basis	lb	.34	.39
ret dms. c.l., t.l. dlvd E of Rockies	lb	.31	—
ret. dms. t.c.l., same basis	lb	.31	.34
tanks, same basis	lb	.21½-	—
Bromochloromethane dms., c.l., frt. equald	lb	48	—
dms., t.c.l., same basis	lb	50	—
tanks, same basis	lb	47	—
Bromoform, pharmaceutical grade, 5-gal, cby., frt. equald	lb	1.95	—

Bromstyrol, bots.	lb.	5.25	6.25
Brucine, cns	oz.	Nominal.	
Brucine sulfate, NF, cns.		1.45	1.75
Buchu leaves, bbls.	lb.	.70	.75

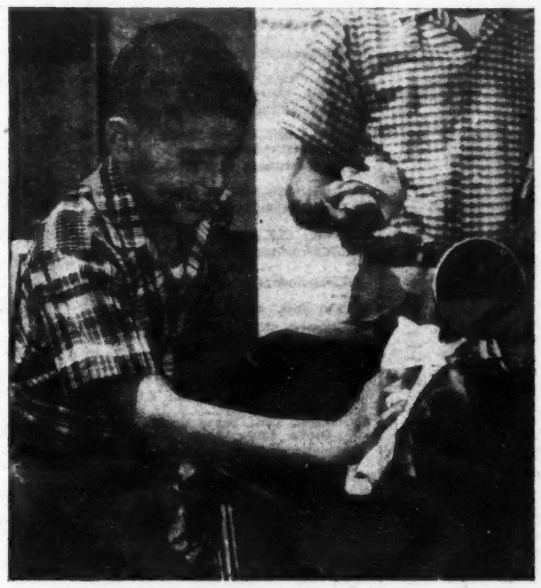
BROWN PIGMENTS

Brown pigment quotations are listed individually. For example, prices on Brown, iron oxide, may be found in the I's under Iron oxide brown.

Butadiene, refd cyls., c.l., refy	lb	.21	—
cyls., l.c.l., refy	lb.	.22	—
tanks, dlvd	lb.	.12¾-	—
Butene-1, tanks, works	lb	.0625-	—
Butene-2, tanks works	lb.	.0570-	—
n-Butyl acetate, ferment, dms., c.l., frt. alld	lb	.17	—
dms., l.c.l., same basis	lb.	18½-	—
tanks, same basis	lb.	.14½-	—
Syn. dms., c.l., dlvd. E	lb	.17	—
dms., l.c.l., same basis	lb.	18½-	—
tanks same basis	lb.	.14½-	—
sec-Butyl acetate, syn. dms., c.l., dlvd E	lb.	.14¾-	—
dms., l.c.l., same basis	lb.	16¼-	—
tanks, same basis	lb.	.12¼-	—
n-Butyl acrylate, dms. c.l. or t.l., straight or mixed frt. alld. E	lb.	.37½-	—
dms., l.t.l., same basis	lb.	.38½-	—
tanks, same basis	lb.	.35	—
n-Butyl alcohol, ferment, dms., c.l., frt. alld	lb	.18	—
dms., l.c.l. frt. alld	lb.	.19½-	—
tanks, frt. alld	lb	.15½-	—
n-Butyl alcohol, syn. dms., c.l., dlvd	lb.	.18	—
dms., l.c.l., frt. alld	lb.	.19½-	—
tanks, dlvd	lb.	.15½-	—
Sec-synthetic, dms., c.l., dlvd	lb.	.15	—
dms., l.c.l., dlvd.	lb.	.16½-	—
tanks, dlvd	lb.	.12½-	—
n-Butyl alcohol, tert-synthetic, dms., c.l., frt. alld., dlvd E	lb.	.16	—
dms., l.c.l. same basis	lb.	.17½-	—
tanks, same basis	lb.	.13½-	—
Butyl aldehyde (see Butyraldehyde).			
Butyl chloride, dms., c.l., works	lb.	.37½-	—
dms., l.c.l., works	lb.	.38¼-	—
n-Butyl ether dms., c.l., works	lb.	.35¼-	—
dms., l.c.l., works	lb.	.36	—
tanks, works	lb.	.33¼-	—
Butyl lactate, dms., c.l., frt. alld. E. Rockies	lb.	.42½-	—
dms., l.c.l., same basis	lb.	.43½-	—
tanks, same basis	lb.	.40	—
Butyl laurate, dms., works	lb.	.37½-	—
Butyl methacrylate, dms., c.l., t.l., works	lb.	.55	—
dms., l.c.l., works	lb.	.55½-	—
Butyl oleate, refd., dms., l.c.l., works	lb.	.32	—
Butyl phenylacetate, dms.	lb.	4.50	4.60
Butyl phthalate (see Dibutyl phthalate)			
Butyl stearate, dms. c.l. frt alld E. of Rockies	lb.	.27¼-	—
dms., l.c.l., same basis	lb.	.28¼-	—
Butylamine (see Mono-, Di- and Tri-butylamine).			
tert-Butylamine, dms., c.l., t.l., t.o.b. works	lb.	.47	—
dms., l.c.l., same basis	lb.	.47½-	—
tc., t.t., same basis	lb.	.45	—
Butylated hydroxyanisole, food grade, dms., dlvd.	lb.	4.75	—
6-tert-Butyl-m-cresol (see Mono-tert-butyl-m-cresol)			
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).			
1,3-Butylene glycol, dms. c.l., t.l., dlvd	lb.	.30½-	—
dms., l.c.l., t.t.l., t.o.b. works	lb.	.22	—
tanks, dlvd	lb.	.18	—
p-tert-Butylphenol, bgs., c.l., dlvd.,	lb.	.27½-	—
bgs., l.c.l., works	lb.	.28½-	—
Butyraldehyde, dms., c.l., dlvd	lb.	.22	—
dms., l.c.l., dlvd.	lb.	.23½-	—
tanks, dlvd.	lb.	.19½-	—
Butyric acid, 99%, dms., c.l., frt. equald	lb.	.34	—
dms., l.c.l., same basis	lb.	.34½-	—
tanks, same basis	lb.	.32½-	—
Butyric ether (see Ethyl butyrate).			
Butyrolactone, dms., c.l., t.l., works.	lb.	.40	—
dms., l.c.l., same basis	lb.	.43	—
n-Butyronitrile, dms., c.l., dlvd	lb.	.56½-	—
dms., l.c.l., dlvd.	lb.	.57½-	—
tanks, dlvd.	lb.	.54	—

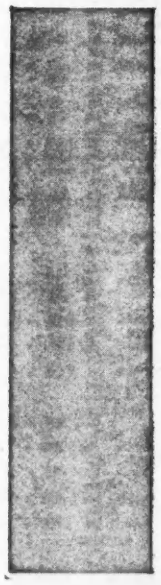
C

Cacao butter (see Cocoa butter).			
Cadmium CP red dark shade, bbls., frt. alld. E. of Rockies	lb.	5.55	—
Light shade, bbls., same basis	lb.	4.65	—
medium shade, bbls., same basis.	lb.	5.30	—
Medium light shade, bbls., same basis	lb.	4.90	—
Orange-red shade, bbls., same basis	lb.	4.30	—
Yellow, all shades, bbls., frt. alld. E. of Rockies	lb.	2.95	—
Cadmium chloride, 400-lb. dms., f.o.b. shipping point	lb.	1.49	—
Cadmium iodide, 25-lb fib dms	lb	6.75	7.00
Cadmium metal, ingots or sticks, ton lots, cs., dlvd	lb.	1.60	—
Cadmium nitrate, purit. cryst., 400-lb. dms., less than 5,000 lbs., f.o.b. shipping point.	lb.	.89	—
400-lb. dms., 5,000 lbs. or more, same basis	lb.	.87	—
Cadmium-mercury lithopone orange, deep shade, bbls., frt. alld E. of Rockies	lb.	1.70	—
Cadmium-mercury lithopone red, dark shade, bbls., same basis	lb.	2.00	—
Red, light shade, bbls., same basis.	lb.	1.77	—
Red, medium shade, bbls., same basis	lb.	1.92	—
Red, medium light shade bbls., same basis	lb.	1.85	—
Red, maroon shade, bbls., same basis	lb.	2.08	—
Cadmium-selenide lithopone maroon, bbls., frt. alld E of Rockies	lb.	2.81	—
Orange, bbls., same basis	lb.	1.63	—
Cadmium-selenide lithopone red, orange-red shade bbls., same basis	lb.	1.77	—
Red, dark shade, bbls., same basis.	lb.	2.61	—
Red, light shade, bbls., same basis.	lb.	1.63	—
Red, medium shade, bbls., same basis	lb.	2.28	—
Red, medium-light shade, bbls. same basis	lb.	2.05	—
Cadmium-selenide, lithopone, yellow, all shades bbls., frt alld E. of Rockies	lb.	1.34	—
Caffeine NF citrated, dms. 100-lb. lots or more	lb	2.70	—
USP, nat., cryst., anhyd., dms., 100-lb lots or more	lb.	2.10	—
Caffeine, USP, nat., cryst., hydrous, dms., 100-lb. lots or more.	lb.	1.90	—
Caffeine, USP, syn., anhyd., dms., 100-lb. lots or more	lb.	2.10	—
cryst., hydrous, dms., 100-lb. lots or more	lb.	1.95	—
Cajuput oil, native, cns.	lb.	1.75	2.00
Redist., USP, cns.	lb.	1.90	2.10
Calamine, USP, dms.	lb.	.34	—
Calamus oil, bots.	lb.	12.00	-20.00
Calciferol, cryst., 10-kilo or more lots, works gram		.54	—
1-10 kilo lots	gram	.55	—
Calciferol, in edible oil (see Viosterol).			
Calcium p-aminosalicylate trihydrate, fib, dms., 100 lbs. or more, frt adjusted	lb	3.10	—
Calcium bromide, NF jars, 100 lbs. or more	lb.	1.10	—
Calcium carbide, standard generator size, 600-lb dms., c.l., dlvd	ton.	149.00	—
Calcium carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works	ton.	10.50	—
Calcium carbonate, chalk, whiting, 325 mesh, bgs. c.l., works.	ton.	32.00	-34.00
water-grd., ½ to 10 microns, bgs., c.l., works	ton.	30.00	—
10 to 20 microns, bgs., c.l., works	ton.	17.00	-18.00
Calcium carbonate, precip., dense, bgs., c.l., works	ton.	30.00	-38.50
bgs., l.c.l., works	ton.	45.00	-53.50
medium bgs. c.l., works	ton.	38.00	—
bgs., l.c.l. works	ton.	48.00	-53.00
Calcium carbonate, surface treated, bgs., c.l., works	ton.	42.00	-44.00
bgs., l.c.l., works	ton.	57.00	-59.00
ultrafine, bgs., c.l., works	ton.	117.50	167.50
bgs., l.c.l., works	ton.	137.50	-187.50
Calcium chloride, cons., flake or pellet 94-97%, paper bgs., c.l., works, frt. equald.	ton.	39.30	—
Flake, 77-80%, paper bgs., c.l., works, frt. equald	ton.	32.00	—
Liquor, 40%, tanks, frt equald.	ton.	12.50	—
Powd., 77% min., paper bgs., c.l., works, frt. equald	ton.	37.00	—
Purif., gran., dms.	lb.	.37	—
Calcium chloride, solid, 73-75%, dms., c.l., frt. equald	ton.	30.50	—
dms., l.c.l. works, frt. equald.	ton.	36.00	-73.00
USP, gran., dms.	lb.	.32	—
Calcium chromate, bgs., dlvd	lb.	.37	—
Calcium cyanide, dms., c.l., dlvd. E. of Rockies	lb.	.20	—
dms., l.c.l., same basis	lb.	.24	-.55
Calcium cyclamate, 100-lb dms	lb.	1.93	—
Calcium gluconate, USP, AA grade, 100-lb. dm., ton	lb.	73½-	—
USP powd., 100-lb dm., ton	lb.	.66½-	—
Calcium hydride, lump, dms. works.	lb.	2.20	3.00
Calcium hypochlorite, high test, gran., 45-lb. cs., dlvd E. of Rockies	cs.	23.85	-25.60
100-lb. dms. same basis	dm.	33.30	-36.55
Calcium hypophosphite, dms. 1,000-lb. lots	lb.	1.28	—
Calcium iodide, 25-lb. jars, works	lb.	4.27	—
Calcium lactate, NF, dms., f.o.b. works	lb.	.43	-.46
Calcium mandelate, USP, 150-lb dm., works	lb	3.25	—
Calcium naphthenate, liq., 4% Ca., dms., frt equald	lb.	.30	—
Calcium pantothenate, USP, jars, 1 kilo or more	kilo.	35.00	—
Calcium para-aminosalicylate (see Calcium p-aminosalicylate)			
Calcium phenosulfonate, dms	lb	1.24	1.25
Calcium phosphate, dibasic, USP, bgs., c.l., frt equald	100 lbs.	16.00	—
Dibasic, feed grade, 18½% P, bgs., c.l., t.l., Bonnie, Fla., frt. equald	ton.	81.00	—
bgs. c.l. t.l., f.o.b. Texas City works	ton.	75.50	—
bgs., l.c.l.,	ton	96.00	—
Calcium phosphate, dibasic, feed grade, 21% P., bgs., c.l., t.l., frt. equald	ton.	97.65	—
bgs. l.c.l. frt equald	ton	107.65	—
Prices of calcium phosphate dibasic in bulk $3 per ton less than bgs., c.l., prices.			
Calcium phosphate, monobasic, bgs., 10,000-lb lots, frt. equald.	100 lbs.	7.45	—
bgs., smaller lots, same basis.	100 lbs.	7.95	—
Tribasic, NF, precip., bgs., c.l., works, frt. equald	100 lbs.	9.25	—
bgs., l.c.l., frt. equald	100 lbs.	10.00	—



MAKE WAX SPREAD BETTER

CIGARS SMOKE FINER



Improving on nature to make your product a natural...

MEER

Natural Products

PAINTS LAY SMOOTHER

In natural products, as in so many other fields, it pays to deal with a specialist. Botanicals, gums and resins have been our only business since we opened our doors in 1926. Today, 35 years later, customers know they can count on MEER for expert help, "express" delivery and exceptional products. If you're less than satisfied with your present source... if consistent quality lot-after-lot would make your job easier... if dependable delivery is a "must"... keep MEER in mind. Write for our comprehensive catalog.

MEER CORPORATION

NEW YORK: 318 West 46th St., N.Y. 36, N.Y. JUdson 6-0900
Cable Address: "Merelis", New York
CHICAGO: 325 W. Huron St., Chicago 10, Ill. MIchigan 2-8895
PLANT: 9412 Railroad Avenue, North Bergen, N.J.
CANADA: SODEN CHEMICALS
Division of Witco Chemical Company Canada Ltd.

"Natural Products are our only business"

Calcium Propionate—Copper Acetate

Calcium propionate, any quantity, dms., dlvd E. of Rockies, lb. .34½- —
Prices W of Rockies 3c. per lb. more.
Calcium phytate bgs., 50 lbs. or more f o b warehouse N Y lb. .39 - —
Calcium resinate, precip., dms., frt. alld., works lb. .45 - —
Calcium silicate hydrated, bgs., c.l., works lb .06 —
bgs. t.c.l., works lb. 06½- —
Calcium silicate paint grade (see Wollastonite)
Calcium stearate ctns., c.l. ... lb .39 —
ctns., t.c.l ... lb .40 - .44
Calomel NF mild, powd. dms., 100-lbs., f o.b works lb 4.32 - —
NF mild precip, dms., 100-lbs., f o.b works lb 5.67 — —
Camphene 46° m.p. dms incl., c.l., works lb .15 —
dms incl., t.c.l. same basis lb. .16½- —
tanks, same basis lb. 12½- —
Camphene chlorinated 67-69% (see Toxaphene)
Camphor monobromated, NF dms., kgs lb. 3.63 3.70
Camphor, syn., tech., 1 bbl. or more, lb. .45 - —
USP, gran., powd., bbls., 1,000-lb. lots lb. .53 - —
bbls. smaller lots ... lb. .54 - —
tablets, ctns., 1,000-lb. lots, lb. .80 - —
ctns., 500-lb. lots ... lb .81 - —
ctns., smaller lots ... lb. 82 - —
Camphor oil, sassafrassy, dms. lb .35 .55
White, dms. ... lb 26 50
Cananga oil, native, cns. ... lb 5.00 6.50
Rectified, cns ... lb 7.25 10.00
Candelilla wax, crude, bgs ... lb. .57 - .58
Refd., pure, bgs ... lb. .62 - .63
Powdered Candelilla wax 20 to 100 mesh 8c higher.
Cantharides, Chinese, cs. ... lb 1.00 —
powd., bgs. ... lb 1.15 —
Russian bgs. ... lb 2.00 2.15
powd. bgs. ... lb 2.15 2.30
Capric acid, dms ... lb. .27¼- .29¾
tanks ... lb. .24¾- —
Caprolatam monomer, bgs., c.l., t.l., f.o.b works lb .52 - —
bgs., t.c.l., t.t.l., same basis lb .57 - —
tanks, same basis lb .49 - —
Capryl alcohol 85% dms., c.l., t.l., works lb .19 —
dms., t.t.l. same basis lb 19½- —
tanks, frt. equald. lb 16½- —
Sec. 92-99% dms. c.l., f.o.b works lb 22 —
dms. t.c.l. f.o.b. works lb 23 —
tanks, f o b works lb 19½- —
Caprylic acid, dms ... lb. .27¼- .29¾
tanks ... lb. .24¾- —
Capsicum (see Pepper red).
Capsicum oil (see Capsicum oleoresin).
Capsicum oleoresin NF, from dom pepper, dms lb 4.00 - —
NF, from African pepper, dms. lb 4.50 - —
Caraway oil, NF, dms ... lb. 3.75 - —
Caraway seed Danish, bgs. ... lb 16 - —
Dutch, bgs. ... lb. .18 - —
Polish, bgs. ... lb 17¼- —
Carbazole 97%, bbls, ton lots, works lb 1.05 —
Carbon black, channel, rubber beads, bulk, c.l., works lb .08 —
bgs c.l., works lb. .08½- —
bgs., t.c.l. works lb. 16¼- —
Carbon black, furnace, fast extruding, bgs., c.l., works lb. .08¾- —
ctns., t.c.l., whse lb. 13½- —
Carbon black high abrasion, bulk, c.l., works lb. 07¼ —
bgs. c.l., works lb 07¾- —
bgs. t.c.l., dlvd or whse lb .14½ —
high modulus, bgs., c.l., works, lb. .06¼- —
ctns. t.c.l., whse lb. 13 —
semi-reinforcing, bgs., c.l., works lb. .05¾ —
bgs., ctns., t.c.l., whse lb 12½- —
Carbon black, pigment, high color beads, ctns., c.l., works lb. .78 - —
ctns. t.c.l., dlvd or whse lb .87 —
medium color, uncompressed, bgs., c.l., works lb .14 - —
bgs., t.c.l., dlvd or whse lb. 22½- —
Carbon dioxide, indust., wholesale, bulk, 30,000-2,999,999 lbs., dlvd Metropolitan areas, E ton.60.00 -115.00
bulk, 3,000,000 lbs or more, dlvd Metropolitan areas, E ton.55.00 - —
Solid, bulk, wholesale, works ton.85.00 - —
Carbon disulfide, 55-gal dms., c.l., works, frt equald to competitive points lb. .071 —
55-gal dms. t.c.l., same basis lb. .086 .091
5-gal dms., 30 dms to c.l., same basis lb. .131 —
5-gal dms., less than 30 dms., same basis lb .161 —
tanks, dlvd ... lb. .0520- —
Carbon tetrachloride CP, consumers dms. c.l., frt alld. lb. .12¾ —
dms. t.c.l. frt alld. lb. .15¼ —
Tech. consumers dms. c.l., t.l., frt. alld lb. .11¾ —
dms. t.c.l. t.t.l. frt. alld lb. .14¼ —
tanks, frt alld lb. .10¾ .11¼
Carboxymethyl cellulose (see CMC).
Carbromal NF dms. 100-lb lots, works lb 4.00 4.25
dms. smaller lots, works lb 4.10 4.75
Cardamom oil, NF, bots ... lb. 43.00 -45.00
Cardamom seed, bleached "A" lb 3.45 - —
Bleached "B" lb 3.15 - —
Decorticated Alleppey, cs ... lb. 2.15 - —
Guatemala, cs. ... lb 2.85 - —
Green, Alleppey, bgs. ... lb. 2.15 - —
Ceylon, bgs. ... lb. 2.20 - —
Carmine No 40, NF, bulk, 100-lb lots or more dlvd. lb.16.80 —
bulk, smaller lots, dlvd. lb.16.90 -17.30
Carnauba wax, chalky, bgs., ton lots, lb. .70 Nom.
North Country, No. 2, crude, bgs., ton lots lb. .80 - .82
refd., pure, ton lots ... lb. .87 - .88
North Country, No. 3, Ceara, crude, ton lots lb. .66 - .67
North Country, No. 3, Parnahyba, crude, ton lots lb. .68 - .70
No. 3, refd., pure, bgs., ton lots, lb. .76 - .78
No. 1, Ceara, yellow, bgs., ton lots, lb. .96 - .98
Parnahyba, yellow, bgs., ton lots, lb. .98 - 1.00
Powdered carnauba wax, 20 to 100 mesh 8c per lb higher

Carotene, tech., 1,350,000 A units per gram tins, 5-10 kilo lots, dlvd gram .30½- —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .12 - —
USP, microcrystalline in oil, 400,000 A units per gram., dms., dlvd million units. .144 - —
b-Carotene, in vegetable oil, semi-solid suspension 400,000 A units per gram cns kilo.57.60 - —
b-Carotene, liquid in vegetable oil, 500,000 A units per gram, cns kilo.72.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram cns kilo.240.00 —
Carvol, bots. lb 5.00 5.40
Cascara sagrada bark, bulk lb .32 —
Casein, dom. edible, acid precip., 30 mesh, bgs., 10,000-lb. lots or more works lb. .56 - —
edible, acid precip, 80 mesh, bgs. 10,000-lb lots or more works lb. .64 - —
Imp., inedible acid-precip. grs., Argentine, bgs., c.l., ex-dock Eastern seaports lb. .16¾- .17¼
Australian, bgs., c.l., same basis lb. .19¼- .19¾
New Zealand, same basis lb. .24 - .25
Cashewnut shell, liquid, treated, dms., c.l., Newark, N.J lb. .24 - —
dms. ton lots, same basis lb. .25 - —
t.w., same basis lb. .22½- —
Cassella acid dms. frt alld., 100% basis lb 1.44 1.75
Cassia oil, redist., USP cns lb. 7.50 9.00
Cassia, Padang, "A," bis ... lb. .31 - —
"B," bls. ... lb. .30 - —
"C," bls. ... lb. .29 - —
Korintje "A," bls. ... lb. .34 - —
"B," bls. ... lb. .30 - —
"C," bls. ... lb. .30 - —
Castor oil, dom., blown, dms., c.l., lb. .2550- —
dms. t.c.l lb. .2650- —
Castor oil, dom, dehydrated, bodied, dms. c.l lb. .2700- —
dms. t.c.l. lb. .2850- —
tanks lb. .2500- —
dehydrated, unbodied, dms., c.l., lb. .2500- —
dms., t.c.l. lb. .2660- —
tanks lb. .2360- —
hydrogenated, bgs., c.l. ... lb. .2450- —
bgs., ton lots ... lb. .2850- —
bgs., t.c.l., dlvd. ... lb. .3050- —
Castor oil, dom., hydrogenated, No. 1, dms., c.l lb. .2200- —
dms., t.c.l. lb. .2300- —
tanks lb. .2000- —
No. 3, tech., dms., c.l. ... lb. .2125- —
dms. c.l., ... lb. .2225- —
tanks ... lb. 1925- —
Refd. deod dms., c.l. ... lb. .2650- —
dms., t.c.l. ... lb. .2750- —
tanks lb 2450- —
USP, dms., c.l. ... lb. .2350- —
dms., t.c.l ... lb. .2450- —
tanks ... lb. .2150- —
Imported, No. 1, Braz., tanks lb. .17¾- —
Sulfonated, 50%, dms., works lb. .15 - .15½
75%, dms. works lb .19 .19½
Castor oil acids, dehydrated, dms. lb. .41¼- .43¼
Split, dms. ... lb. .33¾- .34¾
Castor pomace, bgs., c.l., works ton.35.00 —
Castoreum nat., cns. ... lb. 5.25 - —
Syn., cns. ... lb 9.00 - —
Catechol, CP, cryst., fib., dms., works lb 2.17½ —
Resub., dms., works lb 4.29½ —
Catnip leaves, Southern, bls lb. Nominal
Caustic potash (see Potash caustic).
Caustic soda (see Soda, caustic)
Cedarleaf oil USP XIII cns. dms. lb. 3.25 3.50
Cedarwood oil cns., dms. ... lb. 1.00 - —
Celery seed, French, bgs. ... lb. .37 - —
Indian, bgs lb .19 - —
Cellulose acetate, flake, powd., bgs., t.l. dlvd E lb. .36 .51
Cellulose acetate-butyrate powd., 17% butyryl content, bgs., dlvd E lb. .545 .555
27% butyryl content, bgs dlvd. E lb. .595 .605
38% butyryl content, bgs. dlvd. E lb. .545 .555
38% butyryl content, half-second, bgs., dlvd E lb. .545 .555
50% butyryl content, bgs dlvd. E lb. .585 .595
Cellulose gum, methyl (see Methyl Cellulose)
Cellulose gum, pure, high vis., bgs., 23,000-lb lots or more works, frt alld lb. .57 - —
ogs. smaller lots, same basis lb. .59 - —
Cerium hydrate 74% CeO, fib dms., 100-lb. lots or more lb. 1.40 - —
77% CeO, fib dms., 100-lb lots or more lb. 1.74 - —
Cerium oxalate (see Rare earth oxalate)
Cerium oxide, optical grade, bgs., 50-lb lots or more, dlvd. lb 1.85 1.90
bgs., smaller lots, dlvd lb 2.15 —
Cetyl alcohol NF fib cns., c.l., t.l., dlvd E lb. .41½- —
fib cns. t.c.l. same basis lb. .43½- —
tanks same basis lb .39 - —
Extra, cns. c.l., t.l., dlvd E lb. .48½- —
fib cns. t.c.l., same basis lb. .50½- —
tanks, same basis lb. .46 - —
Chalk (see Calcium carbonate)
Chamomile flowers, Hungarian, lb. .85 - 1.00
Roman, cs. ... lb. 1.50 - 1.75
Chamomile oil, blue Hungarian, bots lb.350.00 —
Charcoal, activated NF, fib dms., c.l., works lb. .34 - —
fib, dms., 5-ton lots, works lb. .35 - .35½
fib dms., smaller lots, works lb. .36 - .59
Charcoal, black (see Charcoal, activated)
Charcoal, bone (see Bone black).
Charcoal hardwood, lump, bulk, c.l., f.o.b plant ton.55.00 - —
briquets, bulk, c.l., f.o.b plant ton.80.00 - —
5-lb paper bgs., c.l., same basis ton.106.00 - —
20-lb paper bgs, c.l., f.o.b. plant, ton.90.00 - —
40-lb paper bgs c.l. same basis ton.86.00 - —
Chenopodium oil, NF, cns lb. 4.75 - 5.00
Chicago acid, paste, bbls, frt alld. lb. 3.21 - —
Chinawood oil (see Tung oil)
Chloral, tech., 94% min. dms., c.l., works lb. .43 - —
dms., t.c.l., works lb. .44 - —
tanks, multiple units, 5 cars, dms., t.c.l., works lb. .21 —

Chloral hydrate, USP, jars, 1,000-lb lots lb. 1.00 - —
jars, 500-lb lots ... lb. 1.02 - —
jars, 100-lb. lots or less ... lb. 1.05 - —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 - —
dms., t.c.l., 8,000-10,000-lb. lots, frt. alld lb. .68 - —
Chlordan, clarified, dms., c.l., frt. alld lb. .69 - —
dms., t.c.l., 8,000-10,000-lb. lots, frt. alld lb. .70 - —
Chlorinated paraffin, 40%., dms., c.l., frt. alld lb. .15 - —
dms. t.c.l., 10 dms or more, same basis lb. .16 - —
70%, dms., c.l., same basis lb. .18½- —
dms., t.c.l., 10 dms or more, same basis lb. .19½- —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l. works lb. .60 - —
ctns., t.c.l. works lb. .61 - —
125 cps. ctns. c.l., works ... lb. .70 - —
300 cps. ctns., c.l., works ... lb. .80 - —
Chlorine, liq., cyls., c.l., works, frt equald lb. .11 - —
cyls. t.c.l., Metropolitan area lb. .12½- .13¾
tanks, single units, works, frt. equald 100 lbs. 3.25 - —
tanks, multiple units, 5 cars, works, frt equald 100 lbs. 4.15 - —
tanks, multiple units, 4 cars, same basis 100 lbs. 4.35 - —
tanks, multiple units, 2 cars, same basis 100 lbs. 5.35 5.85
tanks, multiple units, 1 car, same basis¾ 100 lbs. 6.25 7.25
Chloroacetic acid, mono, flake, 99%, purif. dms. c.l lb. .23½- .25½
dms. t.c.l. lb. 24½- —
tech. flake 96-97%, dms., c.l., frt. equald lb. .19 - —
dms. t.c.l. frt equald lb. .20 - —
2-Chloro-4-aminotoluene, tech., liq., dms., frt. alld lb. 1.03 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.38 - —
6-Chloro-2-aminotoluene, tech., liq., dms., frt. alld lb. .66 - —
m-Chloroaniline, dms., c.l., frt. alld. lb. .75 - —
dms., t.c.l., same basis ... lb. .77 - —
tanks, same basis ... lb. .73 - —
o-Chloroaniline, dms., c.l., frt. alld lb. .52 - —
dms., t.c.l., same basis ... lb. .54 - —
tanks, same basis ... lb. .50 - —
p-Chloroaniline, dms., c.l., frt. alld. lb. .77 - —
dms., t.c.l., same basis lb. .79 - —
o-Chlorobenzaldehyde, dms., t.l., works lb .1.05 - —
dms., t.t.l., same basis lb. 1.20 - —
p-Chlorobenzaldehyde, dms., t.c.l., works lb. 1.95 - —
o-Chlorobenzoic acid, fib. dms., t.l., works lb. 1.10 - —
fib. dms., smaller lots, works lb. 1.25 - —
p-Chlorobenzoic acid, fib. dms., 2,000-lbs. or more, works. lb. 2.25 - —
fib. dms., less than 2,000-lbs., same basis lb. 2.30 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
dms., t.c.l., same basis ... lb. .19 - —
tanks, same basis ... lb. .17 - —
Chloroform, USP, dms., c.l., dlvd. lb. .27 - —
dms., t.c.l., dlvd. lb. .30 - —
tanks, minimum 4,000 gals. dlvd. lb. .25 - —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .90 - —
Powd., dlvd. E., 100% basis lb. 1.00 - —
4-Chloro-2-nitroaniline, powd., dlvd. E lb. .86 - —
4-Chloro-2-nitrophenol, tech., paste, dms., frt. alld lb. .75 - —
4-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .99 - —
o-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .20½- —
o-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms. t.c.l., same basis lb. .38 - —
p-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms. t.c.l., same basis lb. .38 - —
Chloropicrin, comi., cyls., 180 lbs., frt alld lb 1.07 - —
cyls., 100 lbs., same basis lb 1.08 - —
cyls., 50 lbs., same basis lb. 1.14 - —
Chlorosulfonic acid, dms., c.l., frt. equald lb. .0465- —
dms., t.c.l. frt equald lb. .0515- —
tanks, frt equald lb. .0415- —
Chlorosulfonic acid, in stainless steel dms.½c per lb higher
o-Chlorotoluene tech. dms., t.l., works lb. .37 - —
dms., t.c.l., t.t.l., same basis lb. .38 - —
Choline bitartrate, 100-lb. dms., frt. equald lb. 1.25 - —
Choline chloride, 100-lb. dms., frt. equald lb. 1.25 - —
Choline dihydrogen citrate, 100-lb. dms., frt. equald lb. 1.25 - —
Chrome green CP dark, right medium blue content, 1-15%, bbls dlvd E of Rockies. lb. .43 - —
blue content 16-30%, bbls., same basis lb. .44 - —
medium blue content, 41-45% bbls., same basis lb. .44 - —
blue content, 45-49% bbls., same basis lb. .45 - —
Chrome green, reduced color 25%, bbls., same basis lb. .20 - —
Chrome green prices 1c higher W of Rockies
Chrome orange CP bbls, dlvd E of Rockies lb. .35 - —
Chrome orange prices 1c higher W of Rockies.
Chrome yellow CP bbls, dlvd E of Rockies lb. .35 - —
Chrome yellow price 1c higher W of Rockies.
Chromic acid, 99¾%, dms., c.l., works, frt. equald lb. .29½- —
dms., t.c.l., dlvd. N. Y. Metropolitan area lb. .30 .31
Chromic acid, NF (see Chromium trioxide)
Chromium acetate, soln., 7½%, dms., 500-2,000-lb lots, works. lb. .10 - —
Chromium fluoride, bbls., works lb. .51 - .53
Chromium oxide, hydrated, bbls., fib dms., c.l., frt. alld. lb. 1.20 - —
Pure, bgs., c.l., frt alld ... lb. .44½- —
bgs. t.c.l. same basis ... lb. .45¼- —
Chromium trioxide, NF, bots lb. 1.15 - —
Cinchona bark, NF, red, broken, bgs lb .25 - —
NF yellow broken, ngs ... lb. .35 - .40
Cinnamic acid, refd., bots ... lb. 2.50 3.50
Cinnamic alcohol, bots ... lb. 1.50 1.60
Cinnamic aldehyde, dms ... lb. .80 1.00
Cinnamon, Ceylon, No. 2, bgs ... lb. .53 - —
Ceylon, No. "0000," bgs. ... lb. .73 - —
Cinnamon bark oil, bots ... lb.42.00 -46.00
Cinnamon leaf oil, crude, dms lb. 1.60 2.00
USP (Cassia), cns., dms ... lb. 8.50 -13.50

Citral, CP, bots. ... lb. 2.60 4.00
Extra, bots. ... lb. 3.60 5.00
Syn., dms. ... lb. 7.25 7.40
Citric acid, USP, anhyd., fine gran., bgs., dms., c.l. lb. .29½- .30
bgs., dms., 10,000-lb. lots, 1 shipt lb. .30 - .30½
bgs., dms., smaller lots lb. .30½- .31
Citric acid, USP, hydrous, fine gran., bgs., dms., c.l. lb. .27½- .28
bgs., dms., 10,000-lb. lots, 1 shipt lb. .28 .28½
bgs., dms. smaller lots lb. .29 .29½
Powdered citric acid ½c. per lb. higher.
Citronella oil, Ceylon, dms. ... lb. 1.00 —
Java-type, dms. ... lb. 1.20 - 1.35
Citronellal, bots., dms. ... lb. 1.40 - 1.60
Citronellol, bots., dms. ... lb. 1.90 2.50
Citronellol, synthetic, dms. ... lb. 1.70 —
Civet, artif., bots. ... lb.13.75 -15.00
Nat. bots ... oz. 8.50 -15.00
Clay, hall, dom., airfloated, bgs., c.l., Tenn ton.17.50 -21.50
crushed shed moisture, bulk, c.l., Tenn ton. 8.00 -11.25
imp. airfloated bgs., c.l., Atl port net-ton.43.00 -47.00
lump, bulk, Atl. port net-ton.31.50 -37.50
Clay, China, dom., dry-grd., airfloated, 99%, 325 mesh, Georgia bgs., c.l., works ton.11.00 -17.00
Georgia bgs. t.c.l. works ton.13.50 -22.50
imp. white, lump, bulk, c.l. ex-dock, Philadelphia, Portland, Me long-ton.23.00 -35.00
white, powd. bgs. c.l. ex dock net-ton.50.00 —
bgs., t.c.l. ex whse net-ton.60.00 -70.00
Cleaners naphtha, petroleum, 105° F. Flash, tankcars New Jersey and New York gal. 18 —
Group 3 gal. .12@75- —
Houston, Texas gal. 145 —
140° F Flash, tankcars, New Jersey or New York gal. .205 —
Group 3 gal. .154 —
Houston Texas gal. .17 —
Cleve's acid tech. mixed, solid, dms., frt. alld lb. 1.05 —
1,6 tech. solid dms frt alld lb 77 - —
1,7 tech., dms. frt alld lb 2.20 —
Clove bud oil, USP, dms. ... lb. 2.65 - —
Zanzibar, bgs. ... lb. .41 - —
Clove bud oil, USP dms ... lb 2.70 3.60
Clove leaf oil, crude, dms. ... lb. 1.25 —
CMC, crude, 96.4% low or medium vis bgs., 23,000 lbs., dvld. E., 100% basis lb. .40 - —
96.4% low, or medium vis., bgs., less than 23,000 lbs., dlvd. E., 100% basis lb. .42 - .50
65%, low or medium vis., bgs., c.l., dlvd. E., 100% basis lb. .40 - —
t.c.l., dlvd. E., 100% basis lb. .42 - 1.00
purif., high vis. (see Cellulose gum).
CMC, standard low or medium vis., bgs., 23,000 lbs. works, frt. alld lb. .57 - —
bgs. smaller lots, same basis, lb. .59 1.00
CMC prices W of the Rockies are 2c. per lb lower and are on a works basis.
Coaltar, crude resale for soln., tanks, works gal. .17 —
Refd., resale, indust., dms., c.l., ex whse gal. .35 —
dms., t.c.l., ex whse gal .39 —
tanks, works gal 20½- —
Coaltar pitch, aluminum, bulk, works, ton 44.00 —
Carbon and indust., bulk, works ton.42.00 - —
Core bulk works ... ton.40.50 - —
Fiber, bulk works ... ton 48.00 - —
Roofing, 140-155° F., Federal Specification RP-381 Type I tanks, works ton.41.00 - —
Cobalt acetate 23.7% Co., dms. dlvd lb 1.04 —
Cobalt blue, genuine, 250 lb bbls. dlvd E of Rockies lb 4.90 - —
Cobalt blue prices 1c. higher W of Rockies
Cobalt blue imitation (see Ultramarine blue)
Cobalt carbonate, 48% Co., powd., bgs., dlvd lb. 1.45 - —
Cobalt chloride, 24.2% Co., dms., dlvd lb. .93 - —
Cobalt hydrate, 60-61% Co., dms., dlvd lb. 1.97 - —
Cobalt linoleate, fused 8½% Co., dms lb. .71½- —
Liq., 6% Co. dms lb. .57½- —
Cobalt metal, 99% dms. f.o.b. carrier lb. 1.50 —
Cobalt naphthenate liq. 6% Co., dms., dlvd lb. .48¾- —
Cobalt nitrate 20.1% Co. bbls. dlvd. lb. .75 - —
Cobalt oxide, black, ceramic grade, 72½-73½% Co., kgs., dlvd E of Mississippi R. lb. 1.15 - —
70-71% Co kgs. same basis lb 1.12 —
Cobalt oxide prices W of Mississippi R. 3c. per pound higher
Cobalt phosphate powd., 32.1% Co., dms., dlvd lb 1.35 —
Cobalt resinate, fused 3% Co. dms lb. .38½- —
Cobalt sulfate, cryst., 21% Co., dms., dlvd lb .64 —
Monohydrated, 33% Co., dms., dlvd lb. 1.09 - —
Cobalt tallate 6% Co., dms. dlvd. lb. .44 - —
Cocaine, USP cns., 100-oz lots, f.o.b works oz.17.50 - —
Cocaine hydrochloride, cns 100-oz lots f.o.b works oz.13.75 - —
Cocillana bark, bls lb 18 .20
Cocoa, butter, bgs. ... lb. .57½- .62½
Coconut oil, crude, tanks, New York lb. .13¾- —
tanks, Pac. coast ... lb. .12½- —
Refd., deodorized, dms. ... lb. .19¼- .20¼
Coconut oil acids, dis., dms. ... lb. .21½- .24
tanks ... lb. .19 - —
double dist. (stripped), dms. ... lb. .22½- .25
tanks ... lb. .20 - —
Cod oil, dms. spot ... lb. .08¾- .08¼
Codeine, NF cns., 100-oz lots oz.13.25 - —
Codeine hydrochloride cns., 100-oz. lots oz.11.75 - —
Codeine phosphate USP, cns., 100-oz lots oz.10.25 - —
Codeine sulfate USP cns. 100-oz. lots oz.10.75 - —
Codliver oil, USP dms ... gal 1.40 1.70
Cohosh root, black, bls ... lb 20 25
Blue, bls ... lb 20 25
Colchicine, USP, bots. ... 27.50 -29.00
Colchicum root, bls ... lb .35 45
Colchicum seed, bgs ... lb 75 80
Collodion, USP, dms. ... lb. .32½- —
USP flexible dms ... lb. .34 - —
Colocynth pulp bls ... lb. 75 —
Colombo root, bls ... lb .16 .18
Condurango bark, bls ... lb 18 20
Congo copal gum, No 1, bgs. ... lb. .26 .27
No 2, bgs ... lb. 23 25
No. 3, bgs ... lb. .21 - .24
Copaiba balsam, cns., dms ... lb. .82 - 1.10
Copaiba oil, cns ... lb 1.35 2.00
Copper acetate, bbls., c.l., works lb .53 —
bbls., t.c.l., works ... lb. .54 - —

NOW READILY AVAILABLE IN QUANTITY

CELLASE™ 1000

Wallerstein's Cellulose-Degrading Enzyme

Cellase 1000 is a potent purified enzyme preparation of uniform cellulolytic activity now available to manufacturers of pharmaceuticals and food supplements. Standardized at 1000 WCU (**W**allerstein **C**ellulase **U**nits), Cellase 1000 offers the possibility of control of a long neglected phase of human nutrition: **the digestion of vegetable matter high in fiber and roughage.**

A Fungal Enzyme of a New Type

Cellase 1000 is derived from a specially grown strain of *Aspergillus niger.* Chemically it is a highly purified enzyme capable of depolymerizing cellulosic polysaccharides of high molecular weight into fragments of low molecular weight. The exact constitution and nutritional utility of the hydrolysis products depend on many factors, including the type and state of the cellulose initially acted upon.

Some Interesting Uses of Cellase 1000

Aside from the management of geriatric disorders in a progressively aging population, Cellase 1000 can find uses in the correction of dyspepsia, flatulence, certain nutritional insufficiencies, and other GI disturbances of highly contemporary importance. Because Cellase 1000 facilitates the digestion of cabbage, cucumbers, and other "difficult" vegetables, its use for people who have trouble with these foods will allow greater cellulose bulk intake and a concomitant decrease in calorific starches. The implications for the regulation of obesity are plain.

A Pharmaceutically Elegant Enzyme

The whitish color and minimal odor of Cellase 1000 insure its palatability and acceptability in your products, while its high potency and low bulk allow you to formulate smaller and more attractive capsules and tablets than have heretofore been possible. Cellase 1000 is eminently suitable for combination with Mylase® 100 and Prolase® 300, Wallerstein's purified amylase and protease. Further, Cellase 1000 is compatible with most active ingredients. adjuvants and vehicles normally employed in digestive aids and nutritional supplements.

Get in touch with Gerry Gray for samples and your copy of Data Sheet 630 on Cellase 1000.

WALLERSTEIN COMPANY *Division of Baxter Laboratories, Inc.*
Staten Island 3, New York Gibraltar 2-6400

Wallerstein Manufactures Enzymes, Antibiotics and Chemicals for Industry

AHE

Copper carbonate, 55%, dark dense, works lb. 34.35 - —
bgs., l.c.l., works lb. 35.85 - —
Copper chloride, cupric, anhyd., dms., works lb. .43½- .44
cryst., dihydrate, dms., works, lb. .29¾ .30¼
cryst., dried, dms., works lb. .37¾- .38½
Copper chloride, cuprous, dms., works lb. .3655- .4155
Copper cyanide, tech., dms., 20,000-lb lots or more lb. .609 —
dms. 1,000-lb lots or more lb. 619 —
dms smaller lots lb 639 .65
Copper gluconate dms lb 3.20 —
Copper hydrate drv. dms. c.l., frt. E. of Miss lb. .52½- —
dms., l.c.l., same basis lb. .53 - —
Copper metal electrolytic, dlvd. Valley, basis lb. .29 - —
Copper naphthenate liq., 8% Cu, dms frt alld lb .26½ —
Copper nitrate tech. cryst. dms., works lb .30¾ .32¾
Copper oleate solid 9% Cu dms., works lb. 45 —
Copper oxide black bbls., 100-5,000-lb. lots, works lb. .46 - —
Copper oxide, red 97% USN Type 1 bbls. 100-5,000-lb lots, lb. .46½- —
80% USN Type II, bbls. 100-5,000-lb lots or more, works lb. .45½- —
Copper quinolinolate 18% Cu, dms., ton lots lb 4.25 —
10% active quinolinolate dms lb 1.14 1.15
Copper resinate precip., dms., frt alld lb. .47 - —
Copper sulfate, CP, gran., dms., works lb. .1885- —
Cryst., 99%, bgs., c.l., works, 100 lbs. 12.00 - —
bgs., l.c.l., works 100 lbs. 12.50 -15.00
Copper sulfate, monohydrated, 95%, dms., c.l., works 100 lbs. 22.65 - —
dms., l.c.l., works 100 lbs. 23.40 - —
Tribasic, distributors, bgs., c.l., works 100 lbs. 29.10 - —
bgs., l.c.l., works 100 lbs. 30.60 - —
Copper undecylenate, dms lb 2.75 —
Copra, Atl., Gulf ports, c.i.f. ton. 175.00 - —
Pac. ports, c.i.f. ton. 170.00 - —
Coriander oil, USP, bots. lb. 6.50 - 7.25
Coriander seed, Moroccan, bgs lb .20 —
Rumanian, bgs. lb. .15 - —
Yugoslavian, bgs lb 08½ —
Corn oil, crude, wet milled, tanks, works lb. .15¾- —
Foots (soapstock) acid, 95% nks. New York lb. .05½ Nom.
Refd., salad, dms. lb. .2148- .2175
tanks lb. .1898- —
Corn oil acids, dist., dms lb. .14¾- .17¼
tanks lb. .12¼- —
Corn sugar, tanners chipped, paper bgs. c.l. 60,000 lbs. min. 100 lbs 7.30 - —
paper bgs. l.c.l 100 lbs 7.45 - —
Corn syrup, 43° Be., tanks, dlvd. N.Y. 100 lbs. 6.30 - —
non-ret dms. c.l., same basis, 100 lbs. 7.23 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate USP bots. kilo or more gram .95 - 1.75
Costus oil bots oz 6.00 —
Cottonseed meal 41% bgs. Memphis ton. 55.50 - —
Cottonseed oil crude, tanks, South East lb. .11¾- .11⅞
tanks, Valley lb. .11⅝- —
tanks, Texas, Lubbock lb. .11¾ Nom.
tanks, Texas, Waco lb. .11⅞- —
Foots (soapstock) acid, 95% tanks, Texas, Waco lb. .03½- —
Refd., salad, dms. lb. .17⅝- .17⅞
tanks, salad, dms. lb. .15⅝- —
Cottonseed oil acids, dist., dms lb. .14¾- .17¼
tanks lb. .12¼- —
Coumarin, NF, cryst., dms lb 3.30 3.40
Cramp bark NF bls lb 90 1.00
Cream of tartar (see Potassium bitartrate)
Creosote carbonate NF bots. chys., lb 3.05 3.26
Creosote, coaltar, crude, tanks, works, frt adjusted gal. .24 —
Crude, soln 80% tanks, works, gal 226 —
Refd., dms., c.l., works gal. 50 - —
dms., l.c.l., same basis gal 63 - —
tanks, same basis gal 38 - —
West Coast creosote prices computed on a basis of 24c per gallon for straight oil and 20c per gallon for coaltar
Creosote, beechwood, chys., dms., f.o.b. works, dlvd in Metropolitan area lb 1.72 1.77
Hardwood NF chys. dms. same basis lb 1.42 1.47
Pinewood dms. incl. c.l., works, lb. .0611- —
dms. incl., l.c.l., works lb. .0684- —
dms. incl., l.c.l. ex whse, New York lb. .0795- —
tanks, works lb. .0511- —
Creosote oil (see Creosote coaltar).
Cresol, tech. 50% below 204°C., dry above 207°C., wide distillation range non-ret. dms. c.l. frt. alld lb. .16½- —
non-ret dms., l.c.l., same basis lb .17½ —
tanks same basis lb. .145 —
Cresol, USP, 50% 204°C. dry above 207°C., wide distillation range non-ret dms., c.l., same basis lb. .18 - —
non-ret dms. l.c.l. same basis, lb. .19 - —
tanks same basis lb. .16 - —
m-Cresol, 95-98% dms. c.l., works, lb. .60 - —
dms. l.c.l., works lb. .61 - —
m-p-Cresol, 5-95% 3°C. dms., c.l., frt. equald lb 18 - —
dms., l.c.l. same basis lb 19 - —
tanks, same basis lb .16 - —
2,97% 2°C. dms c.l. frt equald. lb 22 - —
dms., l.c.l. same basis lb 23 - —
tanks same basis lb 20 - —
o-Cresol, 30.5°C. m.p. and over, ret., dms c.l. frt equald lb .17 - —
ret dms., l.c.l., same basis lb 18 - —
tanks, same basis lb 15 - —
30°-30.40°C. m.p. dms., c.l., frt. equald lb .16½ —
ret. dms., l.c.l., same basis lb .17½ - —
tanks same basis lb 14½ - —
Cresol, 29°-29.9°C. m.p., dms., c.l., frt equald lb .16 - —
ret. dms. l.c.l., same basis lb .17 - —
tanks, same basis lb 14 - —
25°-28°C. m.p. dms. c.l., frt. equald lb 15 - —
ret. dms. l.c.l. same basis lb .16 - —
tanks same basis lb 13 - —
p-Cresol 98% dms. c.l., dlvd lb 52 - —
dms., l.c.l., dlvd lb 53 - —
tanks, dlvd lb 49 - —

2,3-Cresotic acid, dms., ton lots, works lb. .70 - —
dms., smaller lots, works lb. 72 - —
p-Cresyl methyl ether, cns lb. 1.80 2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt equald gal. 1.35 - —
dms., l.c.l., same basis gal. 1.40 - —
tanks, same basis gal. 1.15 - —
metapara content 25% or less, dms., c.l., t.l., same basis gal. 1.20 - —
dms., l.c.l., same basis gal. 1.25 - —
tanks, frt equald gal. 1.00 - —
Cresylic acid, coaltar, imp., meta-para content 25% or less, f.o.b. works, frt. equald. to competitive points, 50 dms or more, gal. 1.03½- —
less than 50 dms., same basis gal. 1.05 1.15
tanks, same basis gal. 1.00 —
Crotonaldehyde, 91-93% dms., l.c.l., works lb. .25 - —
Crotonic acid, dms., 200 lbs. or more, l.c.l., dlvd lb. .38 - —
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
bgs., l.c.l. works 100 lbs. 14.25 - —
Cube root, powd., 5% rotenone, bgs., t.l., works lb 21 - —
bgs. l.t.l., works lb 22 - —
Cubeb berries, NF, bgs lb 1.00 - —
Powd., cs. lb 1.15 - —
Cubeb oil, cns lb. 8.75 - 9.00
Cumene, dms., c.l., works lb .12 —
dms., l.c.l., works lb .14 - —
tanks, works lb .11 - —
Cumin seed, Iranian, bgs. lb. .20 - —
Moroccan, bgs. lb. .36 - —
Turkish, bgs. lb. .16 - —
Cumin seed oil, bots., cns lb. 15.50 -17.00
Cyanamide, fertilizer, mixing grade, 21% N, gran., bgs., Niagara Falls, Ont contract ton 57.00 - —
Fertilizer, pulv. 21% N, bgs., works unit-ton 2.85 - —
Cyanamide, fertilizer, indust. grade bgs, c.l., works ton 75.00 - —
bgs., l.c.l., works ton 98.00 - —
Indust grade 6-16 mesh, dms., c.l., works ton. 120.00 - —
dms. l.c.l. works ton 140.00 —
Cyclohexane, 99%, tech., dms., c.l., dlvd E of Rockies gal 1.02 - —
dms. l.c.l. same basis gal 1.10 - —
dms., c.l. dlvd W of Rockies gal. 77 - —
dms., l.c.l., same basis gal. 85 - —
tanks, works gal. 55 - —
98% tech. 40-dm lots or more, f.o.b works gal. 56 - —
5-39 dms. same basis gal 60 - —
tanks, same basis gal. 36 - —
Cyclohexanol, tech., dms. c.l., works, frt alld E lb. 28½ - —
dms. l.c.l. works same basis, lb 29½ - —
tanks, works, same basis lb 26 —
Cyclohexanone, tech. dms., c.l., works lb. 33½ - —
dms., l.c.l., works lb. 34½ - —
tanks, works lb 31 —
Cyclohexylamine, tech., dms., c.l., works lb. .40 - —
dms., l.c.l., works lb. .50 - —
tanks, works lb. 47 - —
Cypress oil, bots. lb. 5.30 —

D

2,4-D tech. bgs. dms., c.l., works, frt equald lb. .40 —
bgs. dms. l.c.l., same basis lb .45 .49
2,4-D butyl ester dms. c.l. works, lb. .43 —
dms., l.c.l., same basis lb .48 .52
tanks, same basis lb .42 —
2,4-D isopropyl ester, dms., c.l., works lb .43 —
dms., l.c.l., works lb. 48 .52
tanks, works lb 42 —
Dammar gum Batavia, A E. cs lb No stocks.
East India Batu, bold, bgs lb. 15½ .18
nubs and chips, bgs lb. .10 .11
black, bold, bgs lb. .16 - .18
nubs and chips, bgs lb. .13 - .14½
unscraped, bgs lb .13 .14½
pale, chips, bgs lb. .16 - .18
pale nubs, bgs lb 20¾ .24
Siam cs lb .31½ .34
Singapore, No. 1, bgs. lb. .38 - .44
No 2, bgs. lb .29 .32
dust, bgs. lb. 18 .20
No 3, bgs. lb No stocks.
Dandelion root, bls lb. .35 .40
DDD, tech. flake, grd., fib dms., c.l., works lb. .45 .47
fib. dms., l.c.l., works lb. 46 .48
DDT, flake or lump, bgs., c.l., dlvd lb .23 - —
bgs. smaller lots, same basis, lb .25 - —
fib dms., c.l., same basis lb .24 - —
fib dms., smaller lots, same basis lb 26 - —
Powdered DDT 1c. per pound higher.
DDVP (see Dimethyl dichlorovinyl phosphate)
i-Decanol, tech., dms., c.l., dlvd. E. lb. .43½- —
dms., l.c.l., dlvd. E. lb. 45½- —
tanks, dlvd E lb. 41 —
Decyl alcohol, mixed isomers, dms., c.l., dlvd lb. .23½- —
dms., l.c.l., dlvd. lb. .25 —
tanks, dlvd. lb .21 —
Perfume grade, bots. lb 1.00 2.00
Decyl alcohol normal (see i-Decanol)
Deertongue leaves, bls. lb. .50 - .60
Defluorinated phosphate, feed grade 14% P, paper bgs., c.l., t.l., Tupelo, Miss ton. 52.00 - —
18% P, paper bgs., c.l., Texas City ton. 61.25 - —
paper bags, c.l., works, Miss ton. 66.00 - —
19% P, paper bgs., c.l., t.l works, Houston, Tex ton. 66.35 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l prices
Degras, common (15-17% free fatty acid), 400-lb dms lb. .12 - 14
Neutral (over 2% free fatty acid), 400-lb dms lb. 13 - —
Denatured alcohol, ethyl, CD-13, CD-13, CD-14, CD-17, dms., c.l., dlvd E of Rockies, gal. 69½ —
dms., l.c.l., same basis gal. 74½ .80½
tanks, dlvd, same basis gal. 53½ —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.

Denatured alcohol, ethyl, proprietary solvent, dms., c.l., dlvd. E of Rockies gal. 72 - —
dms., l.c.l., same basis gal. 77 - .83
tanks, same basis gal. 56 —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, SD1, dms., dlvd E of Rockies gal. 70½- —
dms., l.c.l., same basis gal. 75½- .81½
Denatured alcohol, ethyl, SD1, tanks, same basis gal. 54½- —
SD2B, dms. c.l. dlvd E of Rockies gal. 69 —
dms., l.c.l., same basis gal. 74 - .80
tanks, same basis gal. 53 - —
SD3A, dms. c.l., dlvd E of Rockies gal. 68 —
dms. l.c.l. same basis gal. 73 - .79
tanks, same basis gal. 53 - —
Denatured alcohol, ethyl, SD23A, dms. c.l. dlvd E of Rockies gal. 70½- —
dms., l.c.l., same basis gal. 75½- .81½
tanks, same basis gal. 54½- —
Denatured alcohol, ethyl, SD23H, dms., c.l., dlvd E of Rockies gal. 71 - —
dms., l.c.l., same basis gal. 76 - .82
tanks, same basis gal. 55 —
Denatured alcohol, SD29, dms., c.l., dlvd. E. of Rockies gal. 69½- —
dms. l.c.l., same basis gal. 74½ .80½
tanks, same basis gal. 53½- —
SD30, dms., c.l. dlvd. E of Rockies gal. 68 —
dms., l.c.l., same basis gal. 73 - .79
tanks, same basis gal. 53 - —
Denatured alcohol, ethyl, SD-35A, dms., c.l., dlvd. E of Rockies gal. 71 - —
dms., l.c.l., same basis gal. 76 - .82
tanks, same basis gal. 55 - —
Denatured alcohol, ethyl, SD-40, dms., dlvd. E. of Rockies gal. 70½- —
dms., l.c.l., same basis gal. 75½- .81½
tanks, same basis gal. 54½- —
For anhyd. alcohol on above formulas prices are 7c. per gal higher
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c differential on tankcars is maintained.
d-Desoxyephedrine hydrochloride, dms lb. 15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms lb 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 9.10 - —
100 lbs. 9.34 - —
canary dark, paper bgs., c.l 100 lbs. 9.03 - —
paper bgs., l.c.l 100 lbs. 9.18 - —
indust grade, 6-16 mesh, canary light, paper bgs., c.l. 100 lbs. 8.93 - —
paper bgs., l.c.l. 100 lbs. 9.08 - —
white paper bgs., c.l. 100 lbs. 8.77 - —
paper bgs., l.c.l. 100 lbs. 8.92 - —
Corn dextrin in cotton bgs 15c. per 100 lbs higher
Dextrose anhyd., comi., bgs., c.l. 100 lbs. 8.65 - —
bgs. l.c.l. 100 lbs. 8.80 - —
Anhyd. special, aluminum foil lined fib. dms., 200-lb dms 100 lbs. 14.70 - —
100-lb dms. 160 lbs. 15.20 - —
Hydrated, coml., bgs., c.l., ex whse 100 lbs. 7.45 - —
bgs. c.l., ex whse 100 lbs. 7.60 - —
USP dms. lb. .19¾- —
Diacetone alcohol, acetone-free, dms., c.l., dlvd lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks, dlvd lb. 13 - —
Tech. dms. c.l., dlvd. lb. 15 - —
dms. l.c.l., dlvd. lb. .16½- —
tanks dlvd lb. 13½- —
Diacetyl, flavor grade, bots lb. 3.30 - 4.30
Di-sec-amyl phenol, dms., c.l., works lb .32 —
dms. l.c.l. works lb. .33 - —
tanks works lb. 29½- —
Di-tert-amyl phenol, dms., c.l., works lb .32 —
dms. l.c.l., works lb. .33 - —
tanks, works lb. 29½- —
Diallylamine, dms., c.l., dlvd. lb .98½- —
dms. l.c.l., dlvd. lb 1.00 - —
tanks dlvd lb. .96 - —
o-Dianisidine dry, tech., fib dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works, lb. .93 - —
dms., l.c.l., same basis lb. .94 - —
tanks, same basis lb. .91 - —
Dibromobenzene, bgs., 500-lb. lots, lb. .55 - —
2,6-Di-tert-butyl-p-cresol, feed grade, c.l., t.l., dms., dlvd. lb. .65 - —
t.t.l., dms., same basis lb. .68 - —
Food grade, c.l., t.l., dms., dlvd. lb. .65 - —
dms., t.t.l., same basis lb. .68 - 1.10
Tech., dms., c.l., t.l., dlvd. lb. .57 - —
dms., l.c.l., same basis lb. .60 - —
tanks, same basis lb. .54 - —
Dibutyl fumarate, dms., c.l., t.l., dlvd. E lb. .31½- —
dms., l.c.l., t.t.l., dlvd. E lb. .33 - —
tanks, dlvd E lb. 29 - —
Dibutyl maleate, dms., c.l., t.l., dlvd. E lb. .31½- —
dms., l.c.l., t.t.l., dlvd. E lb. .33 - —
tanks, dlvd. E lb. .29 - —
Dibutyl phthalate, dms., c.l., dlvd, E lb. .31½- —
dms., l.c.l., same basis lb. .33 - —
tankcars, tanktrucks, 2,000 gals., same basis lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .29 - —
Dibutyl sebacate, dms., c.l., works, lb. .67½- —
dms., l.c.l., works lb. .68½- —
tanks, works lb. .65½- —
Dibutyl tartrate, dms., works, frt. alld lb. .63½- —
Dibutylamine, dms., c.l., dlvd lb. .55½- —
dms. l.c.l., same basis lb. .57 - —
tanks, same basis lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .28½- —
dms., l.c.l., dlvd. lb. .30 - —
tanks, dlvd. lb. .26 - —
Dicaprylyl sebacate, dms., c.l., works, lb. .63 - —
dms. l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
3,4-Dichloroaniline, tech., solid, tanks, frt alld lb. .73 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¾- —
dms. l.c.l., same basis lb. .13¾- —
tanks, same basis lb. .11 - —
p-Dichlorobenzene, dms., c.l., t.o.b., works, frt. alld. E lb. .12 - —
dms 2,000 lbs or more same basis lb. .14½- —
1,4-Dichlorobutane, dms., c.l., or t.l., works lb. .33½- —
dms., l.c.l., or l.t.l., works lb. .34 - —
tanks, works lb. 32 - —
Dichlorodiphenyltrichloroethane (see DDT).

2,2-Dichloroethyl ether, dms., c.l., t.l., dlvd. E lb. .15½- —
dms., l.c.l., t.l., same basis lb. .17 - —
tanks same basis lb. .13 - —
Dichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l., same basis lb. .75 - —
Dichloropentanes dist., dms., c.l., works lb. .05 - —
dms., l.c.l., works lb .06 - —
tanks works lb. .03 - —
Dichlorophenoxyacetic acid (see 2,4-D).
Dicyclohexylamine dms. c.l., works, lb. .54 - —
dms., l.c.l., works lb. .55 - —
tanks works lb. .52 - —
Dicyclohexyl phthalate, gran., fib. dms c.l. works frt alld, lb. .47½- —
fib. dms., l.c.l., same basis lb. .49 - —
Dicyclopentadiene dms. c.l., t.o.b. works lb. .14½- —
dms., l.c.l. same basis lb. .14¾- —
tanks, same basis lb. .13 - —
Didecyl phthalate dms. c.l., works, lb. .28½- —
dms. l.c.l., same basis lb. .30 - —
tankcars tanktrucks 2,000 gals, lb. .26 —
tanktrucks 1,000-1,999 gals, same basis lb .26½- —
Dieldrin, dms., c.l. dlvd. lb. 1.85 —
dms., l.c.l dlvd lb 1.90 —
Diethanolamine dms. c.l., dlvd E, lb. .27 —
dms. l.c.l. same basis lb. .28½- —
tanks, same basis lb. .24½- —
Diethanolamine lauryl sulfate, dms., c.l., frt alld lb. .27½- —
dms. l.t.l. frt alld. lb. .28½- —
tanks, frt alld lb. .26½- —
Diethyl barbituric acid (see Barbital).
Diethyl carbonate dms. c.l., t.o.b. works lb. .47½- —
dms., l.c.l., same basis lb. .48½- —
tanks, same basis lb. .45 —
Diethyl ethanolamines, dms., c.l., dlvd lb. .69½- —
dms. l.c.l., dlvd. lb. .71 - —
tanks, dlvd lb. .67 —
Diethyl oxalate dms. c.l., t.o.b. works lb. .42½- —
dms., l.c.l. same basis lb. .43½- —
tanks, same basis lb. .40 —
Diethyl phthalate dms., c.l., dlvd. lb. .29¾- —
dms., l.c.l., dlvd. lb. .31¼- —
tanktrucks 1,000-1,999 gals, same basis lb. .27¾- —
tankcars, tanktrucks 2,000 lb lots, same basis lb. .27¼- —
Diethyl sulfate, dms, c.l., frt. alld, E. lb. .21 - —
dms., l.c.l., frt. alld. E lb. .22½- —
tanks, frt. alld. E lb. .18½- —
Diethyl thiourea dms., c.l., t.l., works lb. .58 - —
dms., l.c.l. same basis lb. .59 - —
Diethyl toluamide, 90-95% meta isomer dms. c.l. t.l., works, lb. 2.30 - —
5-44 dm. lots, works lb 2.35 - —
1-4 dm lots, works lb 2.40 - —
N,N-Diethyl-m-toluidine, tech., liq., tanks, frt. alld lb. .83 - —
Diethylamine dms., c.l., dlvd E lb. .52 - —
dms. l.c.l., same basis lb. .53½- —
tanks, same basis lb. .49½- —
N,N Diethylaniline dms., c.l., frt. alld lb. .57 - —
dms., l.c.l., same basis lb. .58 - —
tanks, same basis lb. .55 - —
Diethylbenzene, 380 lb. dms., c.l., t.l., frt alld., Zone 1 lb. .17½- —
f.o.b., Zone 2 lb. .18½- —
dms., l.c.l., c.l., f.o.b., Zone 1 lb. .19½- —
f.o.b. warehouse points, Zone 2 lb. .20½- —
Diethylbenzene tankcars, Zone 1 lb. .15 - —
Zone 2 lb. .16 —
Zone 1 is East of the Rockies. Zone 2, West of the Rockies
Di-2-ethylhexyl adipate (see Di-iso-octyl adipate).
Di-2-ethylhexyl phthalate (see Di-iso-octyl phthalate).
Diethylene glycol dms. c.l., dlvd E. lb. .17¾- —
dms., l.c.l., same basis lb. .19¼- —
tanks same basis lb. .15¼- —
Diethylene glycol diethyl ether, dms., c.l., works lb. .55 - —
dms., l.c.l., works lb. .55¾- —
Diethylene glycol monobutyl ether, c.l., dms., frt. alld. E lb. .30¾- —
dms., l.c.l., frt. alld. E lb. .32¼- —
tanks, frt. alld. E lb. .28¼- —
Diethylene glycol monobutyl ether acetate, dms., c.l., works lb. .30¾- —
dms., l.c.l., works lb. .31¼- —
tanks, works lb. .28¾- —
Diethylene glycol monoethyl ether, dms., c.l., dlvd. E lb. .22½- —
dms., l.c.l., dlvd. E lb. .24 - —
tanks dlvd E lb. .20 - —
Diethylene glycol monoethyl etner acetate, dms., c.l., works, lb. .27¼- —
dms., l.c.l., works lb. .28 - —
tanks, works lb. .25¼- —
Diethylene glycol monomethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E lb. .22½- —
tanks, dlvd E lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd. E lb. .44 - —
dms., l.c.l., dlvd. E lb. .45½- —
tanks, dlvd E. lb. .41½- —
Diethylstilbesterol, USP, bots. 10-kilo lots kilo. 100.00 -147.50
bots. 1-kilo lot kilo. 110.00 -152.50
Digitalis leaves USP dom. dms lb 1.25 —
Digitoxin, USP, bots gram. 3.75 - 4.20
Diglycol laurate dms., ton lots lb. .32½- —
Diglycol stearate, dms., t.l lb. .26 - —
Digivenic acid, bgs. c.l. t.l., works, lb. .15½- —
bgs. l.c.l. works lb. .16 - —
Dihexyl sebacate dms. c.l., works, lb. .66 - —
dms., l.c.l., works lb. .67 - —
tanks works lb. .64 - —
Dihydrazine sulfate, dms., works lb. 1.10 - 1.25
Dihydrostreptomycin sulfate bulk, gram. .03 - —
1,2-Dihydroxy anthraquinone, dms., works lb. 3.45 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms lb. 2.55 - —
Tech., dms., 20,000 lbs or more lb. 1.11 - —
dms. 1,050 lbs to 20,000 lbs. lb. 1.13 - —
dms. 150 lbs to 1,050 lbs lb. 1.15 - —
Di-isobutyl ketone dms., c.l., dlvd. lb. .17 - —
dms. l.c.l. dlvd. lb. .18½- —
tanks dlvd lb. .14½- —
Di-isobutyl phthalate, dms., c.l., dlvd E. lb. .31½- —
dms. l.c.l., same basis lb. .32½- —
tanks same basis lb. .29 - —
Di-isobutylene dms. c.l., dlvd. E lb. .10 - —
dms. l.c.l., dlvd E lb. .11½- —
tanks dlvd E lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., works lb. .29 - —
dms., l.c.l., same basis lb. .30½- —
tanktrucks, 1,000-1,999 gals., works lb. .27 - —
tankcars, tanktrucks, 2,000 gals., works lb. .26½- —

Di-iso-octyl sebacate, dms., c.l., works	lb.	.62	—
dms., l.c.l., works	lb.	.61¼-	—
tanks, works	lb.	.60	—
Di-isopropanolamine, dms., c.l., dlvd.	lb.	.23¼-	—
dms., l.c.l., same basis	lb.	.24¾-	—
tanks, same basis	lb.	.20¾-	—
Di-isopropylamine dms., c.l., dlvd. E. of Rockies	lb.	.50½-	—
dms., l.c.l., same besis	lb.	.52	—
tanks, same basis	lb.	.48	—
Dillweed oil, dom., bots., dms.	lb.	5.25	—
Dimethyl anthranilate, cns.	lb	4.15	—
Dimethyl dichlorovinyl phosphate, 55-gal. dms., dlvd	lb.	3.50	—
Dimethyl ethanolamine, anhyd., dms., c.l., dlvd. E	lb.	.78	—
dms., l.c.l., dlvd. E	lb.	.79½-	—
tanks, dlvd. E	lb.	.75½-	—
70% dms., c.l., dlvd., 100% basis, contained amines	lb.	.78	—
dms., l.c.l., dlvd., 100% basis.	lb.	.79½-	—
tanks, dlvd., 100% basis	lb.	.75½-	—
Dimethyl hydroquinone, dms.	lb.	1.90	2.20
Dimethyl phthalate, dms., c.l., works	lb.	.29¾-	—
dms., l.c.l., works	lb.	.31¼-	—
tanktrucks, 1,000-1,999 gals., same basis	lb.	.27¾-	—
tankcars, tanktrucks, 2,000 gals., same basis	lb.	.27¼-	—
Dimethyl sebacate, dms., c.l., works.	lb.	1.31	—
dms., l.c.l., works	lb.	1.30	—
tanks, works	lb.	1.28	—
Dimethyl sulfate, ret. dms., c.l., works	lb.	.17½-	—
ret. dms., l.c.l., works	lb.	.18½-	—
tanks, works	lb.	.16½-	—
Dimethyl sulfide, dms., c.l., works.	lb.	.17½-	—
dms., l.c.l., works	lb.	.18½-	.19½
tanks, works	lb.	.15	—
Dimethyl sulfoxide, dms., c.l., f.o.b. works	lb.	.35	—
dms., l.c.l., same basis	lb.	.37	.38
tanks, same basis	lb.	.33	—
Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis	lb.	.38	—
dms., l.c.l., frt. equald, 100% basis	lb.	.38½-	—
tanks, frt. equald, 100% basis.	lb.	.28	—
40% soln., dms., c.l., frt. equald, 100% basis	lb.	.35	—
dms., l.c.l., frt. equald, 100% basis	lb.	.35½-	—
	lb.	.28	—
N,N-Dimethylaniline, dms., c.l., frt. alld	lb.	.28	—
dms., l.c.l., same basis	lb.	.29	—
tanks, same basis	lb.	.26	—
N,N-Dimethylformamide, dms., c.l., t.l., works	lb.	.32½-	—
dms., l.c.l., works	lb.	.33	.34
tanks, works	lb.	.30	—
2,4-Dinitroaniline, dms., frt. alld	lb.	.75	—
Dinitroaniline orange toner, CP, bbls., dlvd. E. of Rockies.	lb.	1.61	—
Dinitroaniline orange toner prices 1c higher W. of Rockies.			
m-Dinitrobenzene, 89°C., dms.	lb.	.26	—
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E	lb.	.17¼-	—
dms., l.c.l., frt. alld. E	lb.	.17¾-	—
tanks, frt. alld. E	lb.	.17	—
2,4-Dinitrophenol bbls.	lb.	.41	—
3,4-Dinitrotoluene, oil, dms.	lb.	.11	—
Refd., 63°C., dms.	lb.	.23	—
Dioctyl adipate, dms., c.l., works	lb.	.42½-	—
dms., l.c.l., works	lb.	.43½-	—
tanks, works	lb.	.40	—
Dioctyl phthalate, dms., c.l., frt. alld. E	lb.	.29	—
dms., l.c.l., frt. alld. E	lb.	.30½-	—
tanktrucks, 1,000-1,999 gals., same basis	lb.	.27	—
tankcars, tanktrucks, 2,000 gals., same basis	lb.	.26½-	—
Dioctyl phthalate prices ¾c. higher in West.			
Dioctyl sebacate, dms., c.l., works.	lb.	.61¼-	—
dms., l.c.l., works	lb.	.62¼-	—
dms., l.c.l., works	lb.	.62¼	—
tanks, works, dlvd.	lb.	.59¼-	—
1,4-Dioxane, dms., c.l., frt. alld. E.	lb.	.31½-	—
dms., l.c.l., frt. alld. E	lb.	.33	—
tanks, frt. alld. E	lb.	.29	—
Prices in the west are 2c. per lb. higher.			
Dipentaerythritol, bgs., c.l., t.l., dlvd. E	lb.	.34	—
bgs., l.c.l., t.l., dlvd. E	lb.	.35	—
Dipentene, dest.-dist., dms., c.l., works	gal.	.58	—
dms., l.c.l., works	lb.	.62	—
dms., l.c.l., ex whse.	gal.	.78	—
tankscars, works	gal.	.41	—
Steam dist., dms., c.l., works, South	gal.	.72	—
dms., l.c.l., dlvd. New York	gal.	.91	—
tanks, works, South	lb.	.53	—
Dip oil (see Tar acid oil).			
Diphenolic acid 1,000-lb. or more, bgs., works	lb.	.75	—
Diphenolic polyether acids, 1,000-lb. or more, bgs., works	lb.	1.00	—
Diphenyl, bgs., c.l., t.l., works	lb.	.16¾-	—
bgs., l.c.l., works	lb.	.18½-	—
tanks, works	lb.	.15¾-	—
Diphenyl oxide perfume grade, cns.	lb.	.55	.70
Diphenyl phthalate, dms., c.l., works.	lb.	.52	—
dms., l.c.l., works	lb.	.54	—
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald	lb.	.32	—
bgs., l.c.l., same basis	lb.	.34	—
Refd., fused, tanks, same basis.	lb.	.29	—
Refd., diphenylamine in dms., ½c. per lb higher			
Diphenylguanadine bgs., dms., ton lots, frt. alld.	lb.	.51	—
bgs., smaller lots, frt. alld	lb.	.52	—
Diphenylhydantoin-sodium, USP, dms	lb.	5.00	5.60
Dipropylene glycol, dms., c.l., frt. alld	lb.	.17	—
dms., l.c.l., frt. alld.	lb.	.18½-	—
tanks, frt. alld	lb.	.14½-	—
Dipropylene glycol prices 1c. higher in West.			
Dipropylene glycol methyl ether, dms., c.l., dlvd. E	lb.	.20	—
dms., l.c.l., same basis	lb.	.21½-	—
tanks, same basis	lb.	.18½-	—
Dithiodibenzoic acid, dms., 1,000-lb. lots, works	lb.	1.80	—
Di-o-tolylguanidine, dms., ton lots, frt. alld	lb.	.71	—
dms., smaller lots, frt. alld	lb.	.72	—
Di-o-tolylthiourea, tech., solid, dms., c.l., t.l., frt. alld	lb.	.55	—
Divinylbenzene, 20-25%, dms., c.l., works, frt. equald	lb.	.20	—
dms., l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.19	—
50-60%, dms., c.l., works, 100% basis	lb.	1.00	—
dms., l.c.l., works, 100% basis.	lb.	1.05	—
tanks, same basis	lb.	.90	—
Dodecenyl succinic anhydride, dms., c.l., t.l., dlvd. E	lb.	.75	—
dms. l.c.l., t.l., same basis	lb.	.76	—
Dodecylbenzene, dms., c.l., f.o.b., works, frt equald	lb	.134	—
dms. l.c.l. same basis	lb	.144	—
tanks, same basis	lb.	.11¼-	—
Dodecylphenol, c.l., frt. alld	lb.	.22½-	—
dms., l.c.l., same basis	lb.	.23½-	—
tanks, same basis	lb.	.20	—

Dodecylphenol prices on shipments to Western States are 2c. per pound higher.

Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd.:			
Blue, FD&C, No. 1	lb.	15.65	17.60
No. 2	lb.	15.65	17.60
Green, FD&C, No. 1	lb.	15.65	17.60
No. 2	lb.	19.60	22.85
No. 3	lb.	31.30	35.20
Red, FD&C, No. 2	lb.	3.30	4.10
No. 3	lb.	19.60	22.85
No. 4	lb	5.55	7.50
Dyes, coaltar, certified colors for drugs and cosmetics 500-lb. and 1-lb. lots. dlvd:			
Violet, FD&C, No. 1	lb.	15.65	17.60
Yellow, FD&C, No. 1	lb.	9.15	11.05
No. 5	lb	3.30	4.10
No. 6	lb.	3.30	4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200-lb. and 1-lb. lots. dlvd.:			
Black, D&C, No. 1	lb.	10.50	10.95
Brown, D&C, No. 1	lb.	15.65	16.10
Green, D&C, No. 5	lb.	15.65	16.10
No. 6	lb.	15.65	16.10
No. 7	lb.	14.35	14.80
Orange, D&C, No. 3	lb.	10.50	10.95
No. 4	lb.	19.60	20.05
No. 5	lb.	3.80	4.25
Red, D&C, No. 17	lb.	10.50	10.95
No. 18	lb.	23.60	24.00
No. 19	lb.	15.00	15.45
No. 21	lb	3.90	4.35
No. 22	lb.	10.50	10.95
No. 28	lb.	24.15	24.65
No 33	lb.	17.00	17.45
Violet, D&C, No. 2	lb.	15.65	16.10
Yellow, D&C, No. 7	lb.	10.50	10.95
No 8	lb.	10.50	10.95
No. 10	lb.	13.05	13.50
No 11	lb.	13.05	13.50

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots, dlvd.:			
Blue, Ext., D&C, No. 1	lb.	15.65	16.10
Green, Ext., D&C, No. 1	lb.	15.65	16.10
Red, Ext., D&C, No. 1	lb.	13.05	13.50
Yellow, Ext, D&C, No. 1	lb.	10.50	10.95

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Color Index scale or prototype), contract dlvd. No.

11110 Brilliant scarlet BN	lb.	1.79	—
13390 Fast blue SR	lb.	1.43	—
14025 Yellow 2G	lb.	1.26	—
14030 Orange R, extra, conc.	lb.	1.64	—
14645 Chrome black T	lb.	.77	—
14720 Rubine XX, conc.	lb.	1.59	—
15510 Orange Y, extra conc.	lb.	.83	—
15575 Orange RR	lb.	.99	—
15620 Fast Red A, conc	lb.	1.61	—
15705 Chrome blue black R, conc.	lb.	1.12	—
16150 Scarlet 2RL	lb.	1.22	—
16255 Brilliant scarlet 3RN, conc.	lb.	1.26	—
16230 Fast light, orange 2G	lb.	1.39	—
17590 Brown PG	lb.	3.00	—
18050 Phloxine 2G	lb.	1.05	—
18055 Fuchsine 6B	lb.	1.55	—
18965 Fast yellow 2G	lb.	2.32	—
19140 Yellow XX	lb.	2.48	—
19555 Yellow NN, conc.	lb.	3.67	—
20170 Brown Y	lb.	1.33	—
20470 Blue black extra, conc.	lb	1.44	—
21010 Brown, RX, conc	lb.	1.42	—
22240 Scarlet B	lb.	2.81	—
22310 Red FC	lb.	1.57	—

Dyes, coaltar for general use in cloth dyeing numbers are those of the Color Index scale or prototype), contract dlvd. No.

22311 Brown MCW	lb.	1.47	—
22610 Blue 2B, extra conc.	lb.	1.53	—
23500 Red 4BX, conc.	lb	1.80	—
24410 Sky blue FF, extra, conc.	lb.	1.95	—
24895 Brilliant yellow, conc.	lb.	3.27	—
26360 Navy blue 3R, conc.	lb	1.84	—
26695 Black F, conc.	lb.	2.30	—
26900 Milling Red 3R, conc	lb	2.24	—
27075 Neutral black 2B, conc	lb	2.75	—
27720 Gray L	lb	2.18	—
29185 Fast scarlet 4BNC	lb	2.23	—
30015 Diazo black VJ conc	lb	2.48	—
30045 Yellow brown K, extra	lb.	1.32	—
30235 Black EB, 200%	lb	1.33	—
30295 Green BY conc.	lb	1.07	—
35660 Brown B	lb	2.89	—
37565 Naphthol SWF	lb	1.85	—
40000 Yellow 2G	lb	1.44	—
41000 Yellow OX	lb	2.45	—
42000 Green V, crystals	lb	2.73	—
42040 Brilliant green G crystals	lb.	3.62	—
42090 Blue EG	lb.	1.85	—
42100 Milling green 6B, conc.	lb.	4.78	—
42640 Violet 4BXN	lb	2.43	—
43830 Brilliant blue, BBG	lb.	2.44	—
44045 Blue B, extra conc.	lb.	3.61	—
45170 Red BX	lb.	4.76	—
50415 Nigrosine SSJ	lb.	1.03	—
52015 Blue GXX	lb.	2.33	—
58005 Alizarin red SC	lb.	3.64	—
59700 Golden orange GFD, single paste	lb.	2.70	—
59710 Flaming orange 6RD double powder	lb.	4.90	—

MONTROSE

CHEMICAL COMPANY

100 LISTER AVENUE
NEWARK, NEW JERSEY

Dimethyl Isophthalate

T.C.P.— Tricresyl Phosphate

Cresyl Diphenyl Phosphate

D.D.T.— Dichloro Diphenyl Trichloroethane

Ethyl Silicate 28% — 40%

Triphenyl Phosphate

Send for literature and samples

EXCLUSIVE SALES AGENT

R. W. Greeff & Co., Inc.

10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y. • Circle 6-9680
1721 TRIBUNE TOWER, CHICAGO 11, ILLINOIS • WHitehall 4-6960

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour index scale of prototype), contract, dlvd, No.
59800 Dark blue BO, single paste, lb 2.28 - —
59825 Jade green NC supra, double paste lb 1.50 - —
61570 Alizarin green CG extra lb 3.81 - —
63010 Alizarin blue SAPG lb 3.90 - —
63615 Alizarin blue black B lb 3.26 - —
69825 Blue BLFD double paste lb 2.76 - —
70805 Brown BR single paste lb 2.03 - —

Dyes, coaltar oil-soluble, 100-lb drums, dlvd, No
12140 Oil scarlet 8L lb 1.87 - —
12055 Oil orange 7078 V lb 1.38 - —
26120 Oil red N 1700 lb 1.94 - —
42535B Methyl violet base lb 1.88 - —
44045B Victoria blue base lb 4.06 - —
50415B Oil black 8603 lb .80 - —
61565 Alizarin cyanine green base lb 6.13 - —

Dyes, coaltar, spirit soluble, 100 lb. dms., dlvd., Black RB lb. 3.89 - —
Spirit brown GN lb. 5.30 - —
Spirit orange R conc. lb. 5.87 - —
Spirit red B conc. lb. 6.41 - —
Pr 517 Spirit yellow 2R conc lb 4.62 - —
Pr 554 Spirit blue THN lb 5.06 - —

E

Echinacea root, bls. lb 1.25 - —
Elm bark grinding, bls. lb 30 - .32
Powd., bbls., bxs lb 60 - —
Select, bundles lb 75 - —
Emetine hydrochloride USP bots. oz.48.40 - —
Endrin tech, dms., 100-lbs or more, 100% basis, dlvd lb. 2.77 - —
Eosin red toner bbls, works lb 1.95 - —
Ephedrine syn., USP, anhyd., bots. 100-oz lots oz. .98 - 1.00
hydrous bots, 100-oz lots, oz .92 - —
Ephedrine hydrochloride NF dms., 100-oz., f.o.b. works oz. .75 - —
Ephedrine sulfate USP, cryst dms., 100-oz f.o.b works oz. .73 - —
USP powd., dms., 100-oz. same basis oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd lb. .29½- —
dms., l.c.l., dlvd. lb. .31 - —
tanks, dlvd. lb. .27 - —
l-Epinephrine base, syn. USP bots, 100 gram lots gram .58 - —
Epsom salt (see Magnesium sulfate).
Erigeron oil, cns lb.11.00 - —
Ergot, NF, dms., tin-lined lb. 2.00 - 2.50
Eserine salicylate, bots oz.34.50 - 40.00
Eserine sulfate bots oz.86.00 - —
Ester gum, gum-rosin type, dms., c.l. dlvd, Ft., Md., Ky., E. States, Minneapolis, N. C., Ohio St. Louis, St. Paul Va., W. Va lb. .18½ —
Wood-rosin type dms, c.l., same basis lb .18½- —
Ether (see specific product)
Ethyl acetate, nat., ferment, 85-88%, dms, c.l. dlvd lb .15 —
dms, l.c.l., dlvd lb .16½- —
tanks dlvd lb .12½ —
85-88% dms, c.l., dlvd lb .15¼ —
dms, l.c.l., dlvd lb .16¾ —
tanks, dlvd lb .12¾ - —
Ethyl acetate nat., ferment, 99%, dms., c.l. dlvd lb .15½ - —
dms., l.c.l., dlvd lb .17 —
tanks, dlvd lb .13 —
syn. 85-88% dms., c.l. dlvd lb .15 —
dms., l.c.l., dlvd lb .16½ —
tanks, dlvd lb .12½ —
Ethyl acetate syn. 95-98%, dms., c.l. dlvd lb .15¼- —
dms, l.c.l., dlvd lb .16¾ —
tanks dlvd lb .12¾ —
99% dms, c.l. dlvd. lb .15½- —
dms., l.c.l., dlvd. lb .17 —
tanks dlvd lb .13 —
Ethyl acetoacetate, dms., c.l., dlvd, lb 58½- —
dms, l.c.l. dlvd. lb .60 —
tanks, dlvd lb .56 —
Ethyl acrylate, dms., c.l., t.l., dlvd, lb. .34¾- —
dms., l.t.l., dlvd lb. .35¾- —
tanks, dlvd. lb. .32¼- —
Ethyl alcohol, 190 pf., USP, tax paid dms, c.l., dlvd E of Rockies gal.20.63 —
dms, l.c.l. same basis gal. 20.73 -20.84
Ethyl alcohol, 190 pf., USP, tax-free, dms, c.l. dlvd E of Rockies gal 68 —
dms, l.c.l., same basis gal. 78 .89
tanks, same basis gal 52 —
Ethyl alcohol, absolute 200 pf., tax paid, dms, dlvd E of Rockies gal 21.75 —
dms, l.c.l., same basis gal.21.85 -21.96
tanks same basis gal 21.59 —
Ethyl alcohol denatured (see Denatured alcohol, ethyl)
Ethyl aminobenzoate USP (see Benzocaine).
Ethyl amyl ketone dms, c.l., dlvd, lb .20 —
dms, l.c.l. same basis lb. 21½ —
tanks same basis lb 17½ —
Ethyl benzoate bots lb .75 1.00
Ethyl bromide tech., 98%, dms., c.l., frt alld, E lb 43 —
dms, l.c.l. frt alld E lb 45 —
tanks, frt. alld, E lb .40 - —
2-Ethyl butyl alcohol, dms., c.l., works lb .30 —
dms., l.c.l., works lb .30¾- —
tanks, works lb .28 - —
Ethyl butyl ketone dms., c.l., t.l., works lb .36 - —
dms, l.c.l., t.l. works lb 36¾- —
tanks works lb .34 - —
Ethyl butyrate dms, works lb .85 1.00
Ethyl carbamate (see Urethane)
Ethyl cellulose, vis. 4 cps. ngs., 5,000 lb lots or more, frt. alld E lb .73 - —
bgs. smaller lots frt alld E lb .75 - —
Ethyl cellulose, vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld, E lb. .68 - —
bgs., smaller lots frt alld E lb .70 - —
Ethyl chloride tech. cyls. works lb .20 .22
dms. works lb .18 .20
tanks works lb .10 —
Ethyl cinnamate, cns lb. 3.15 3.35
Ethyl ethanolamines, mixed, dms, c.l., dlvd E lb .43½ —
dms, l.c.l. dlvd E lb .44½ —
tanks dlvd E lb .41½ —
Ethyl ether, absolute ACS dms lb .27 —
Anesthesia USP dealers 1-lb cns lb 1.01 —
½ lb cns lb 1.09 —
¼ lb cns lb 1.21 —
Indust. dms, c.l. dlvd. lb .13½- —
dms, l.c.l. dlvd E lb .15 - —
tanks dlvd E lb .11 —

2-Ethyl hexoic acid, dms., c.l., t.l., dlvd. E lb .37 - —
dms., l.c.l., t.l., dlvd. E lb. .38½- —
tanks, dlvd. E. lb. .34½ —
2-Ethyl hexoic acid, 1c. higher W. of Rockies.
2-Ethylhexyl acrylate, dms., c.l., t.l., straight or mixed frt alld. E lb. .39½- —
dms., l.t.l., same basis lb. .40½- —
tanks, same basis lb. .37 - —
2-Ethylhexyl alcohol, dms., c.l., dlvd, E lb. .23¾- —
dms., l.c.l., dlvd. E lb. .25¼- —
tanks, dlvd. E lb. .21¼- —
Ethyl iodide, chys., works lb 3.30 —
Ethyl methacrylate dms., c.l., frt equaid lb .52 —
dms., l.t.l. frt. equaid lb 52½- —
tanks, frt. equaid lb 50 —
Ethyl morphine hydrochloride, USP bots oz.11.85 —
Ethyl oenanthate, dms lb 1.05 1.30
Ethyl oxalate (see Diethyl oxalate)
Ethyl silicate, dist (see Tetraethyl orthosilicate)
Ethyl silicate 40% available SiO, dms., c.l., dlvd. E lb. .44 - —
dms., l.c.l., dlvd. E lb. .45½- —
tanks, dlvd. E lb. .42 - —
N-Ethyl-a-naphthylamine, dms, works, lb 1.04 - —
N-Ethyl-m-toluidine tech., uq., tanks frt alld lb .83 - —
N-Ethyl-o-toluidine, bbls lb .88 - —
Ethylamine (see Mono-, Di-, or Tri-)
N-Ethylaniline, dms, c.l., frt alld lb .57 - —
dms, l.c.l., frt alld lb .58 - —
tanks, frt. alld lb .55 - —
Ethylbenzene 99% dms., c.l., t.l., frt. equaid lb. .14 - —
dms, l.c.l., same basis lb. .16 - —
tanks, same basis lb. .11½- —
Ethylene, contract refy gate lb .047½ .052½
Ethylene dibromide dms, c.l., frt equaid lb .30½ —
dms., l.c.l. frt equaid lb 31½ —
tanks frt equaid lb 28½ —
Ethylene dichloride dms, c.l. dlvd lb 11½- —
dms., l.c.l., same basis lb 13 —
tanks, same basis lb .09 —
Ethylene dichloride prices W. of Rockies, 1c. per lb higher
Ethylene glycol, indust., dms., c.l., dlvd E lb .16 —
dms., l.c.l., same basis lb .17½ —
tanks, same basis lb .13½ —
Ethylene glycol monobutyl ether, dms, c.l., dlvd E lb .22 —
dms, l.c.l., dlvd E lb .23½ —
tanks, dlvd E lb 19½ —
Ethylene glycol monoethyl ether, dms, c.l., dlvd E lb .21 —
dms., l.c.l., dlvd E lb .22½- —
tanks, dlvd E lb .18½- —
Ethylene glycol monoethyl ether acetate, dms, c.l., dlvd E lb .19½- —
dms., l.c.l., dlvd. E lb .21 - —
tanks, dlvd E lb .17 —
Ethylene glycol monomethyl ether, dms., c.l., dlvd E lb .21 —
dms., l.c.l., dlvd E lb .22½- —
tanks, dlvd E lb .18½- —
Ethylene glycol monomethyl ether acetate, dms., c.l., works lb. .29 - —
lb. .29 —
dms., l.c.l., works lb. .29¾- —
tanks, works lb. .27 - —
Ethylene glycol monostearate, flake, 150-lb. ctn lb. .33 - —
Ethylene oxide, dms, c.l. dlvd E, lb .21½ —
dms., l.c.l., dlvd E lb .24½ —
tanks, dlvd E lb .15½ —
Ethylene trichloride (see Trichloroethylene)
Ethylenediamine 85-88%, dms., c.l., dlvd. E., 100% basis lb. .42 - —
dms, l.c.l., dlvd E. 100% basis, lb .43 - —
tanks dlvd E., 100% basis lb .40 - —
Ethylvanillin, 100-lb. fib. dms., 500-lb. 6.75 - —
less than 500-lb. lb. 7.40 - —
Eucalyptol, USP, cns., dms lb .85 1.40
Eucalyptus oil NF rectified, 70-75% dms lb. .45 - —
NF rectified, 80-85% dms. lb .53 .62
Eugenol, tech., dms. lb. 1.30 - —
USP, dms. lb. 1.80 - —
Euphorbia herb, bls lb .12 .15

F

F salt paste, tech dms, works lb 2.30 —
Fennel oil, sweet, USP, cns. lb. 2.60 - —
Fennel seed, Argentine, ngs. lb .16 - —
French, light, bgs lb .16 - —
Indian, light, bgs lb. .17½- —
Rumanian, bgs lb. .14 - —
Yugoslav light bgs lb .16½- —
Fenugreek seed, Moroccan, bgs lb .08 - —
Ferric chloride anhyd., tech., dms., c.l. works 100 lbs. 7.50 - —
dms., l.c.l. works 100 lbs 8.50 - —
Ferric chloride indust., cryst., bbls., c.l., works 100 lbs. 5.25 6.75
bbls., l.c.l., works 100 lbs 5.75 7.25
42° Be., photo grade, chys., c.l., works 100 lbs. 7.25 8.25
sewage grade, tanks, frt equaid. 100% basis 100 lbs 4.00 —
USP cryst. dms. t.l. works lb. .08½- —
Ferric citrate gran. dms lb .86 —
Ferric hypophosphite, NF, 175-lb. dm lb. 4.25 - —
Ferric naphthenate, liq., 6% Fe, dms., frt alld lb. .28¼- —
Ferric oxalate, tech., gran., 50-lb. dm, f.o.b works E lb. .89 - —
Ferric oxides (see iron oxides)
Ferric phosphate NF, soluble, gran pearls, cs lb. .72 .75
Ferric pyrophosphate, NF VII, soluble, gran. pearls, 225-lb. dm. lb. .79 - —
Ferric resinate, dms., ton lots, frt. alld lb. .45 - —
Ferric stearate dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt alld lb. .40 - .44
Ferric sulfate, partly hydrated, bgs. c.l., works ton.35.25 —
bgs., l.c.l., works ton.36.25 -42.25
bulk, c.l., works ton.33.25 - —
Ferric-amonium citrate, NF, brown, gran., 100-lb. dms lb. .68 - —
NF, green, gran., 100-lb. dms., frt. equaid lb. .68 - —
Ferric-ammonium oxalate, fine gran., dms lb. .27½- .29½
Ferric-potassium oxalate, fine gran., dms lb. .32½ .34½
Ferric-sodium oxalate, fine gran., dms lb. .27½- .29½
Ferrous gluconate, USP, 200-lb dm., frt. equaid lb. .56 - —
Ferrous sulfate, gran., bgs., c.l., works ton.34.50 —
bgs., l.c.l., dlvd. Metropolitan area 100 lbs 3.35 4.25
bbls., c.l., works ton.40.00 —
bulk, c.l., works ton.27.00 —
USP, cryst., bbls., dms lb. .09½- .10

Fir balsam, Canada, bbls. gal.34.00 -35.00
Oregon, bbls. gal. 3.40 4.64
Fir oil, Canada, cns lb. 1.70 - 1.75
Fish oil, refd., alkali, dms. lb. .1300- .1350
Kettle-bodied, dms. lb. .1530- .1580
Light-pressed, dms. lb. .1150- .1200
tanks lb. .10 - —
Fishliver oil, nat., high potency, 100,000 to 1,500,000 A units per gram, dms 1,000,000 units. .12 - —
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Atlantic and Gulf coasts ton.92.00 - —
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic and Gulf coasts. ton.88.00 - —
Fleaseed (see Psyllium seed)
Folic acid, USP, bots., fib dms., kilo lots or more, gram .25 - —
10% feed grade fib dms., 3 kilos or more kilo.30.00 -44.00
Formaldehyde, 37% (inhibited, 12 to 15% methanol), USP, dms., c.l. dlvd lb. .0695- —
tanks, dlvd. lb. .0405- —
Formaldehyde, methanol-free (uninhibited), tanks, dlvd lb. .0375- —
Formic acid, 85% chys. c.l., works, lb. .1570- —
chys., l.c.l., works lb. .1620- .1720
90% chys., c.l., works lb. .1625- —
chys., l.c.l., works lb. .1675- .1775
Fringetree bark, bls lb. .65 .70
Fumaric acid, tech., 250-lb dms., c.l., frt. equaid lb. .23¼- —
dms., l.c.l., frt equaid lb. .24¾- —
Fumaric acid in bags ½c. per lb less.
Furfural, dms. c.l. works lb. .13 —
dms., l.c.l., works lb. .14 - —
tanks, dlvd E lb. .11½- —
tanks, dlvd. W lb. .12½- —
Furfuryl alcohol, cns., works lb. .28 —
dms., c.l., t.l., Newark, N. J lb. .20½- —
dms., l.c.l. l.t.l., Newark N. J lb. .21½- —
dms. c.l., t.l., Memphis, Tenn lb. .19 - —
dms., l.c.l., l.t.l., Memphis, Tenn. lb. .20 - —
tanks, Memphis, Tenn. lb. .175 - —
Fusel oil, refd. dms., c.l., dlvd lb. .18 —
dms., l.c.l., dlvd. lb. .19½- —
tanks, dlvd lb. .15½- —

G

G salt, bbls., frt. alld., 100% basis. lb. .73 - —
Gallic acid, NF VII, bbls., 1,000-lb. lots lb 2.00 —
bbls., smaller lots lb 2.02 2.22
Tech., bbls. 1,000-lb. lots lb 1.78 —
bbls., smaller lots lb. 1.80 2.00
Gamma acid, dry grd., bbls., frt. alld lb. 1.75 —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots. oz. 4.75 6.05
Imp., bots. oz. 4.50 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible 75 AOAC test, bbls., c.l., dlvd lb. .55 - —
150 AOAC test, bbls., c.l., dlvd. lb. .64 - —
200 AOAC test, bbls., c.l., dlvd. lb. .70 - —
225 AOAC test, bbls., c.l., dlvd. lb. .74 - —
275 AOAC test, bbls., c.l., dlvd. lb. .82 - —
Gelsemium root, bls. lb. .30 - .35
Gentian root, bls. lb .24 - —
Grd., bbls., hxs lb .30 - —
Powd., bbls, hxs lb .30 - —
Geraniol extra, cns, dms. lb 1.75 2.40
Soap grade, dms lb .90 1.75
Standard, cns, dms. lb. 1.65 - —
Synthetic, dms lb 1.30 —
Geranium oil, Algerian, cns. lb.22.00 -23.00
Bourbon, cns. lb.22.00 - —
Geranium oil, Turkish (see Palmarosa oil).
Geranyl acetate, cns. lb 1.90 2.70
Synthetic, dms lb. 1.45 —
Ginger oil, dist., bots lb.11.50 -14.00
Ginger oleoresin, NF from African root, bots lb 4.25 5.00
NF from Jamaican root, bots. lb 4.75 —
Ginger root, Cochin, bgs. lb. .28 - —
Jamaican, No. 3, bgs. lb. .28 - —
Nigerian, split, bgs lb. .22 - —
Sierra Leone, bgs lb. .35 - —
Glauber's salt (see Sodium sulfate).
Gluconic acid, tech., 50% dms., c.l., t.l., f.o.b. works lb. .20 - —
dms., l.c.l., f.o.b. works lb. .21 - —
tanks, f.o.b. works lb. .17 - —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs., c.l., dlvd lb. .16 - —
131 jellygrams, bgs., c.l., same basis lb. .16½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
Glue, bone, extracted, dry bone, 191 jellygrams, bgs., c.l., same basis lb. .19½- —
222 jellygrams, bgs., c.l., same basis lb. .21 - —
Glue, bone, green, 40 jellygrams, bgs., c.l., same basis lb. .16 - —
88 jellygrams, ngs., c.l., same basis lb. .16 - —
115 jellygrams, bgs., c.l., same basis lb. .16½- —
Glue, bone, green, 135 jellygrams, bgs., c.l., same basis lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —
Bone glue, t.c.l., prices 2c higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-149, bgs., c.l., dlvd lb. .19 - —
122-149, bgs., c.l., dlvd lb. .20½- —
150-177, bgs., c.l., dlvd lb. .22½- —
178-206, bgs., c.l., dlvd lb. .25 - —
Glue, hide, 207-236, bgs., c.l., dlvd lb. .28 - —
237-266, bgs., c.l., dlvd lb. .30½- —
267-298, bgs., c.l., dlvd lb. .32½- —
299-330, bgs., c.l., dlvd lb. .34½- —
331-362, bgs., c.l., dlvd lb. .36½- —
363-394, bgs., c.l., dlvd lb. .38 - —
Glue, hide, 395-427, bgs., c.l., dvld, lb. .40 - —
428-460, bgs., c.l., dlvd lb. .42 - —
461-494, bgs., c.l., dlvd lb. .44 - —
495-529, bgs., c.l., dlvd lb. .46 - —
Hide glue, t.c.l., prices 2c. higher.
l-Glutamic acid, 99½%, fib. dms., 100-lb lots, frt. alld lb. 1.80 - —
fib. dms., 25-lb. lots, frt. alld. lb. 1.88 - —
l-Glutamine, bots., 1-9 kilo lots, kilo.150.00 -300.00
Bots., 50-kilo lots kilo.100.00 —
Bots., 500-kilo lots kilo. 75.00 —
Glycerine, dom., nat., crude, saponification, 88%, tanks, dlvd, lb. .1670- .1760
nat., crude, soapiye, 80%, tanks, dlvd lb. .1520- .16
nat., refd., USP, CP, 99%, dms., c.l., dlvd lb. .28¾- —
dms., l.c.l., dlvd lb. .29¾- —
tanks, dlvd. lb. .27½- —

Glycerine, dom., nat., refd., USP, CP, 96%, dms., c.l., dlvd lb. .28 - —
dms., l.c.l., dlvd lb. .28¾- —
tanks, dlvd. lb. .26¼- —
nat., high gravity, dms., c.l., dlvd lb. .28¾- —
dms., l.c.l., dlvd lb. .29½- —
tanks, dlvd. lb. .27 - —
Glycerine, dom., syn., dms., c.l., dlvd lb. .29 - —
dms., l.c.l., dlvd lb. .29¾- —
tanks, dlvd. lb. .27¼- —
Imp., nat., crude, soaplye, 80%, c.i.f. lb. .15 - —
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine).
Glycolic acid (see Hydroxyacetic acid).
Glycolonitrile, 70%, aqueous, dms., c.l., t.l., works lb. .40 - —
dms., t.c.l., same basis lb. .42 - —
tanks, same basis lb. .39 - —
Glyoxal, 30%, dms., c.l., works lb. .20½ —
dms., t.c.l., works lb. .21¼- —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb. 3.10 —
Gramicidin, 1 to 5 kilos, f.o.b. works, gram. 4.25 - —
Grapefruit oil, dms. lb. 2.90 - 3.10
Graphite, amorp., powd., bgs., fib. dms., ex whse lb. .06 .09½
Cryst., 88-90% powd., bgs., fib. dms., ex whse lb. .19 .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 .31½
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 .31
No. 2, 90-95% bgs., fib. dms., ex whse lb. .29 .31
Grease, white, choice all hog, tanks, dlvd lb. .08¾ Nom.
Yellow, tanks, dlvd lb. .05¾- .05¾
Grease oil, No. 1, dms., c.l. lb. .13¾- —
dms., l.c.l. lb. .14¾- .15¾
Extra winter, strained, dms., c.l. lb. .16¼ —
dms. t.c.l. lb. .17¼- .18¼
Prime, burning, dms., c.l. lb. .17¾- —
dms., l.c.l. lb. .18¾ .19¾

GREEN PIGMENTS
Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls. lb. .40 —
Guaiacol, NF, cryst., dms., tins lb 2.10 2.15
NF liq., cbys., dms. lb 2.30 2.40
Guaiacwood oil, cns. lb. .65 .80
Guaiacol carbonate NF VII, dms lb 3.40 3.45
Guar gum, food grade, bgs., c.l lb .38 - —
bgs., 5,000 lbs or more lb .39 - —
Indust., bgs., c.l. lb .32 - —
Tech grade, bgs. lb .30 .33

GUMS
Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

H

H acid, dry, bbls, c.l., frt alld., 100% basis lb. 1.00 - —
bbls., l.c.l., same basis lb. 1.05 - —
Hansa yellow 10 G bbls, dlvd E of Rockies lb 2.45 —
Hansa G yellow, pigment, bbls lb 2.20 —
Hawthorn berries, bgs. lb .18 .20
Heliotropin 100-lb lots, dms. lb 2.60 3.40
Hellebore root, dom., green, bls lb 70 .75
Helonias root, bls lb. 1.50 —
Hemlock oil, cns. lb 2.55 3.00
Henbane leaves, bls lb. .40 - .45
Heptachlor, dms, c.l., t.l., frt. alld., 100% basis lb. .96 —
Heptane, indust., tankcars, New Jersey and New York gal. .20 —
Houston, Texas gal. .1625- —
Hesperidin, purif., 50 kilos, f.o.b. works kilo.19.70 - —
Hesperidin methylchalcone, 50 kilos, f.o.b. works kilo.49.25 - —
Hexachlorophene, dms., 1,100 lbs. or more lb. 1.84 - —
dms., to 1,100 lbs. lb. 1.94 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb lots or more, Perth Amboy or New York City lb. .233 - —
Hexamethylenetetramine, tech., bgs., 1,000-19,999-lb lots, same basis lb. .243 - —
bgs., smaller lots, same basis lb. .253 - —
fib dms., 1,000-lb. lots or more, same basis lb. .250 - —
fib dms. smaller lots, same basis lb. .253 - —
Hexamethylenetetramine, USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd. New York City and Philadelphia lb. .42½- —
bgs., smaller lots, same basis lb. .43½- .48½
Hexane, industrial, tankcars, New Jersey and New York gal. .20 - —
Houston, Texas gal. .16 - —
l-Hexanol, dms., c.l., works lb. .35 - —
dms., l.c.l., works lb. .35¾- —
tanks works lb .33 - —
Hexyl cinnamic aldehyde, dms lb. 3.95 - 4.00
n-Hexyl methacrylate, dms., c.l., works lb. 75½ —
dms, t.c.l. works lb .76 —
Hexyl salicylate, dms. lb. 1.70 - 1.75
Hexylene glycol, dms., c.l., dlvd lb. .17½- —
dms., t.c.l., dlvd. lb. .19 - —
tanks, dlvd lb .15 - —
Hexylresorcinol, USP, dms., 25-lb. lots or more, dlvd lb.14.00 - —
dms, smaller lots, dlvd lb.14.50 - —
Homatropine hydrobromide, USP, bots oz. 3.25 - —
Homatropine methylbromide, USP, bots oz. 3.00 - 3.25
Hoofmeal, 17-18% ammonia, bulk, c.l. Chicago unit-ton. 6.75 —
Horehound herb, bls lb. .18 .20
Hydrastis (see Goldenseal).
Hydrazine hydrate, 85% ret. dms., works lb. 1.35 1.55
100% ret. dms., works lb. 1.60 1.90
Hydriodic acid, purif., 47%, 2-cbys., f.o.b. works lb. 2.92 —
Hydroabietyl alcohol, tech., solid, dms., c.l., dlvd, zone 1 lb. 29¼- —
dms., t.c.l., dlvd zone 1 lb. 29¾ .30¼
tanks, dlvd zone 1 lb 27¼ —
Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.
Hydrobromic acid, medicinal, 48%, chys. frt equaid lb. .48 .58
Hydrochloric acid, anhyd (see Hydrogen chloride).

Hydrochloric acid, 18°, cnys., c.l., works 100 lbs. 2.50 - —
cbys., t.c.l., dlvd. Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton 28.00 - —
20°, cbys., c.l., works 100 lbs. 2.75 - —
cbys., t.c.l., dlvd. Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ... ton 30.00 - —
Hydrochloric acid, 22°, cbys., c.l., works 100 lbs. 3.25 - —
cbys., t.c.l., dlvd. Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt. equald ton 35.00 - —
Hydrochloric acid CP, USP, consumers, cbys., extra, c.l., works lb. .15¾- —
cbys., t.c.l., same basis lb. .17¼- .17¾
Hydrochloric acid, 5-pint bots., extra cs., c.l., same basis. lb. .20¾- —
Hydrocortisone acetate, bulk, bots., kilo lots or more gram. .93 - —
Hydrocortisone alcohol, bulk, bots., kilo lots or more gram. 1.00 - 1.90
Hydrocyanic acid, dilute, NF, 2%, 5-pint bots., f.o.b. works. pint. .70 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)
Hydrofluoric acid, aqueous, 70%, 55-gal. or 30-gal dms., c.l., t.l., dlvd 100 lbs. 19.25 - —
55-gal. dms., t.c.l., t.t.l., dlvd 100 lbs. 20.75 - —
20-gal. dms., c.l., t.l., dlvd 100 lbs. 21.00 - —
Hydrofluoric acid, aqueous, 70%, 20-gal., dms., t.c.l., t.t.l., dlvd 100 lbs. 22.50 - —
tanks, works frt equald 100 lbs. 13.40 —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery
Hydrofluosilicic acid dms., works, 30% basis lb. .07 - —
Hydrofuramide dms., fib. ctns., works lb. .30 - .40
50-lb. cyls., t.c.l., works lb. .55 - .60
Hydrogen chloride anhyd., 50-lb. cyls. t.c.l., works lb. .45 - —
Hydrogen cyanide liq., 98%, tanks, works lb. .14 - —
Hydrogen fluoride, anhyd., cyls., dlvd. E lb. .30½- .32½
cyls., dlvd W lb. .39 - —
tanks, works lb. .18 - —
Hydrogen peroxide 35%, dms., c.l., dlvd lb. .202 - —
dms., t.c.l., dlvd. lb. .211 - —
tanks, dlvd. lb. .1800- —
Hydroquinone, photo grade, dms., 50-lbs. f.o.b works lb. 1.10 - —
Tech., dms., c.l., dlvd. lb. .82½- —
dms. t.c.l. dlvd lb. .84½- —
Hydroquinone monomethyl ether, dms., t.l. dlvd lb. 2.59 - —
dms., t.t.l., dlvd lb. 2.61 - —
Hydroxyacetic acid, tech., 70% dms. Philadelphia and Chicago lb. .11 - —
tanks, Belle W Va lb. .073 - —
Hydroxycitronellol cns lb. 4.85 - 5.75
Hydroxyethyl cellulose, all grades, fib. dms. 20,000-lb lots or more, f.o.b shipping point lb. .84 - —
fib. dms., 2,000 to 19,999-lb lots, same basis lb. .89 - —
fib. dms., 100 to 1,999-lb. lots, same basis lb. .93 - —
fib. dms., smaller lots, same basis lb. 1.03 - —
Hyoscine salts (see Scopolamine)
Hyoscyamine hydrobromide, bots. oz. 7.73 - 8.50
Hyoscyamine sulfate, bots oz. 7.73 - 8.50
Hypophosphorous acid, purif., 50%, 10-cbys. f.o.b works lb. 1.93 - —
NF, 50% 10-cbys., same basis lb. 1.35 - —

I

Ichthammol, NF, dms. lb. .73 - 1.08
Indigo (see Dyes, coaltar, 1171 indigo, syn.)
Indole, CP bots. lb. 13.75 - 15.00
Inositol, 50-100 lb. dms., 1,000 lbs. or more, dlvd lb. 4.50 - —
Inositol, 50-lb. dms., less than 1,000 lb., dlvd lb. 4.75 - —
10 lb cns., 10-50 lbs. dlvd lb. 5.00 - —
5 lb bots., dlvd lb. 5.25 - —
Insect flowers (see Pyrethrum)
Iodine, crude, kgs. lb. 1.10 - —
Resub., USP, dms., f.o.b. works. lb. 2.20 - 2.22
Iodochlorohydroquinolin, USP, dms. lb. 3.60 - —
Iodoform, NF, dms. 300-lbs. f.o.b. works lb. 4.90 - —
dms., 100-lbs., same basis lb. 5.05 - —
a-Ionone, cns. lb. 4.60 - 5.75
b-Ionone, cns lb. 4.15 - 6.15
Ipecac root, whole, bgs. lb. 7.50 - 8.00
Powd., bbls., bxs lb. 9.00 - 9.50
Irish moss, bleached, prime, bls lb. .25 - .27
Iron blue, alkali-resisting, bbls., c.l., dlvd. E lb. .60 - —
bbls., t.c.l. ton lots, same basis, lb. .61 - —
bbls., smaller lots, same basis, lb. .62 - —
Dom., reg, bbls., c.l., dlvd, E lb. .55 - —
Iron blue, alkali-resisting, dom., reg., bbls., c.l., ton lots, same basis lb. .56 - —
bbls. t.c.l., smaller lots same basis lb. .57 - —
Imp., British, reg., bbls. c.l. dlvd. E lb. .48 - —
bbls. t.c.l. ton lots same basis lb. .49 - —
Iron blue, British, reg., bbls., t.c.l., smaller lots, same basis lb. .50 - —
Iron blue dlvd. prices 1c higher for Pacific Coast states: Wash., Ore., Cal., N M., Ariz., Mont. Wyo. Utah, Col and Nev
Iron compounds (see Ferric or Ferrous).
Iron oxide, black, pure, bgs., c.l., works lb. .14¾- —
bgs. t.c.l., works lb. .15 - —
Iron oxide, brown pure, bgs., c.l., works lb. .14¼- —
bgs., t.c.l., works lb. .14½- —
Iron oxide, metallic, brown, bgs., works lb. .05½- —
Iron oxide, Persian Gulf, red., bgs., c.l., works lb. .08¾- —
Iron oxide, red, dom., pure bgs., Bethlehem, E St. Louis, New York City lb. .14¼- —
Iron oxide, red nat. 75-85% ferric oxide, bgs., c.l., works lb. .06¼- —
bgs., t.c.l. works lb. .06½- —
Iron oxide, Spanish red, bbls., c.l., ex dock lb. .05¾ Nom.
bbls., t.c.l. ex dock lb. .06 Nom
bbls., t.c.l., ex whse. New York. lb. 06½ Nom.
Iron oxide, yellow, nat., French type, bgs., c.l., works lb. .06¾- .07
Peruvian type bgs t.c.l lb 023 024
Iron oxide, yellow, pure, light lemon shade bgs c.l works lb .12¼ —
other shades, same basis lb. .12 - .12½

Isoamyl alcohol, dms., c.l., works, frt. alld E lb. .27½- —
dms., t.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Isoborneol, cns. lb. 1.44 - 1.80
Isobornyl acetate, cns. lb. .46 .56
Isobornyl formate, dms. lb. 1.15 - 1.20
Isobornyl propionate, dms. lb. 1.20 - 1.25
Isobutyl acetate, perfume grade cns lb. .30 - .35
Isobutyl acetate, solvent grade, dms., c.l., dlvd. E. of Rockies lb. .15¼- —
dms., t.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12¾- —
Isobutyl alcohol, dms., c.l., dlvd lb. .15½- —
dms., t.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .13 - —
Isobutylene, 99% tanks, works gal. .38 - —
Isobutyl isobutyrate, dms., f.o.b. works lb. .75 - —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½- —
dms., t.c.l., dlvd. lb. .28½- —
Tech., dms., c.l., dlvd. lb. .22 - —
dms., t.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .19½- —
Isobutyric acid, dms., c.l., t.l., dlvd. lb. .35 - —
dms., t.c.l., t.t.l., same basis lb. .36½- —
t.c t.t., same basis lb. .33 - —
Isobutyronitrile, dms., c.l., dlvd. lb. .47½- —
dms., t.c.l., dlvd lb. .48½- —
tanks, dlvd. lb. .45 - —
Isoeugenol cns. lb 3.40 4.25
Isoniazid, powd., bulk, 50 kilos kilo 12.00 - —
Isonicotinic acid, 100-lb fib. dms., works lb. 4.25 - —
Isonicotinic acid hydrazide (see Isoniazid).
Iso-octyl alcohol, dms., c.l., dlvd. E. lb. .23½- —
dms., t.c.l., dlvd. E. lb. .25 - —
tanks, dlvd. E. lb. .21 - —

Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .16¼- —
Isophorone, dms., c.l., dlvd lb. .24½- —
dms., t.c.l., dlvd lb. .25¼- —
tanks, dlvd. lb. .22½- —
Isophthalic acid, dms., c.l., works, frt. equald lb. .18 - .19
dms., t.c.l., same basis lb. .19 - .20
Isopropanol (see Isopropyl alcohol).
Isopropyl acetate, dms., c.l., dlvd. lb. .14 - —
dms., t.c.l., same basis lb. .15¼- —
tanks, same basis lb. .11½- —
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd gal. .58 - —
dms., t.c.l., dlvd. gal. .68 - —
tanks, dlvd. gal. .42 - —
Isopropyl alcohol, refd., 95%, c.l., dms., dlvd gal. .60 - —
dms., t.c.l., dlvd. gal. .70 - —
tanks, dlvd. gal. .44 - —
Isopropyl alcohol, anhyd., c.l., dlvd. gal. .62 - —
dms., t.c.l., dlvd. gal. .72 - —
tanks, dlvd gal. .46 - —
Isopropyl benzene (see Cumene).
Isopropyl ether, dms., c.l., dlvd lb. .09½- —
dms., t.c.l., dlvd. lb. .11 - —
tanks, dlvd lb. .07 - —
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC) tech., dms., c.l. t.l., works lb. 1.00 - —
dms., t.c.l., works lb. 1.05 - 1.25
tanks, works lb. .99 - —

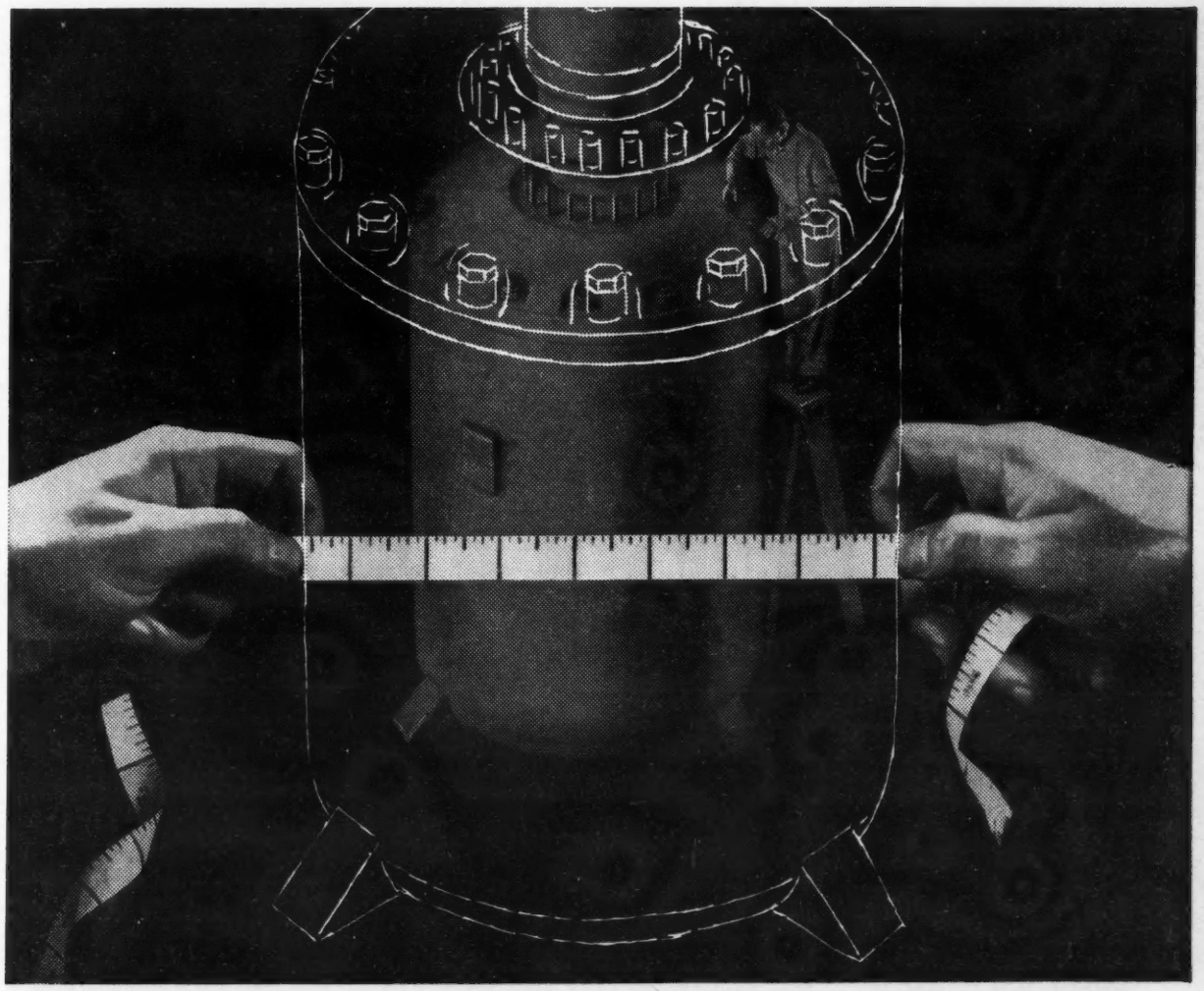
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate 450-lb fib dms. c.l., t.l., works lb 75 —
450-lb. fib dms. t.c.l., works lb 80 90
Isoquinoline, dms., works lb 65 1.25
Itaconic acid, refd. bgs. c.l., t.l. works lb 49½ —
bgs., t.c.l. same basis lb .50½ —
Tech., bgs., c.l., same basis lb 34½ —
bgs., t.c.l., same basis lb. .35½ —

J

J acid, paste bbls., works, 100% basis lb 2.70 —
Powd., bbls. same basis lb 2.75 —
Jalap root, NF bls lb 60 —
NF powd., bbls. bxs. lb 70 75
Japan wax, cs. lb .29 31
Juniper berries, bgs. lb 16 17
Juniper berry oil, NF, bots. lb 2.90 4.75
Twice rectified, bots. lb 3.25 —
Juniper tar oil, NF, dms. lb 42 60
Juniper wood oil, tech., cns. lb .38 .55

K

Kaolin (see also Clay, China).
Kaolin NF, powd., fib dms. lb. .10 .12
NF, colloidal, 50-lb. bgs. lb. .15½ .17¼



Just like owning a bigger kettle...

Celanese Formcel* Solutions enable you to get greater production of urea/melamine-formaldehyde resins with your present equipment

Expand output without expanding your plant. Celanese Formcel Solutions permit larger batch sizes of urea/melamine-formaldehyde resins than are possible with 37% Formalin solutions. Dehydration is reduced or eliminated . . . operating and labor costs are lowered.

Investigate these cost-saving Celanese Formcel Solutions in urea, ethylene urea, melamine and triazone-formaldehyde resin production, or as organic chemical intermediates. The five solutions listed below are available in tankcar, tank-truck, or drum quantities.

For prices and technical data, write to: Celanese Chemical Company, Dept. 756-A, 180 Madison Avenue, New York 16.

CELANESE FORMCEL SOLUTIONS
*(FORMALDEHYDE IN ALCOHOLS)

METHYL 46.5% HCHO
METHYL 55% HCHO
ISO-BUTYL 40% HCHO
n-BUTYL 40% HCHO
n-PROPYL 40% HCHO

Celanese Chemical Company is a Division of Celanese Corporation of America.
Canadian Affiliate: Canadian Chemical Company Limited, Montreal, Toronto, Vancouver.
Export Sales: Amcel Co., Inc., and Pan Amcel Co., Inc., 180 Madison Ave., New York 16.

Celanese® Formcel®

Celanese CHEMICALS

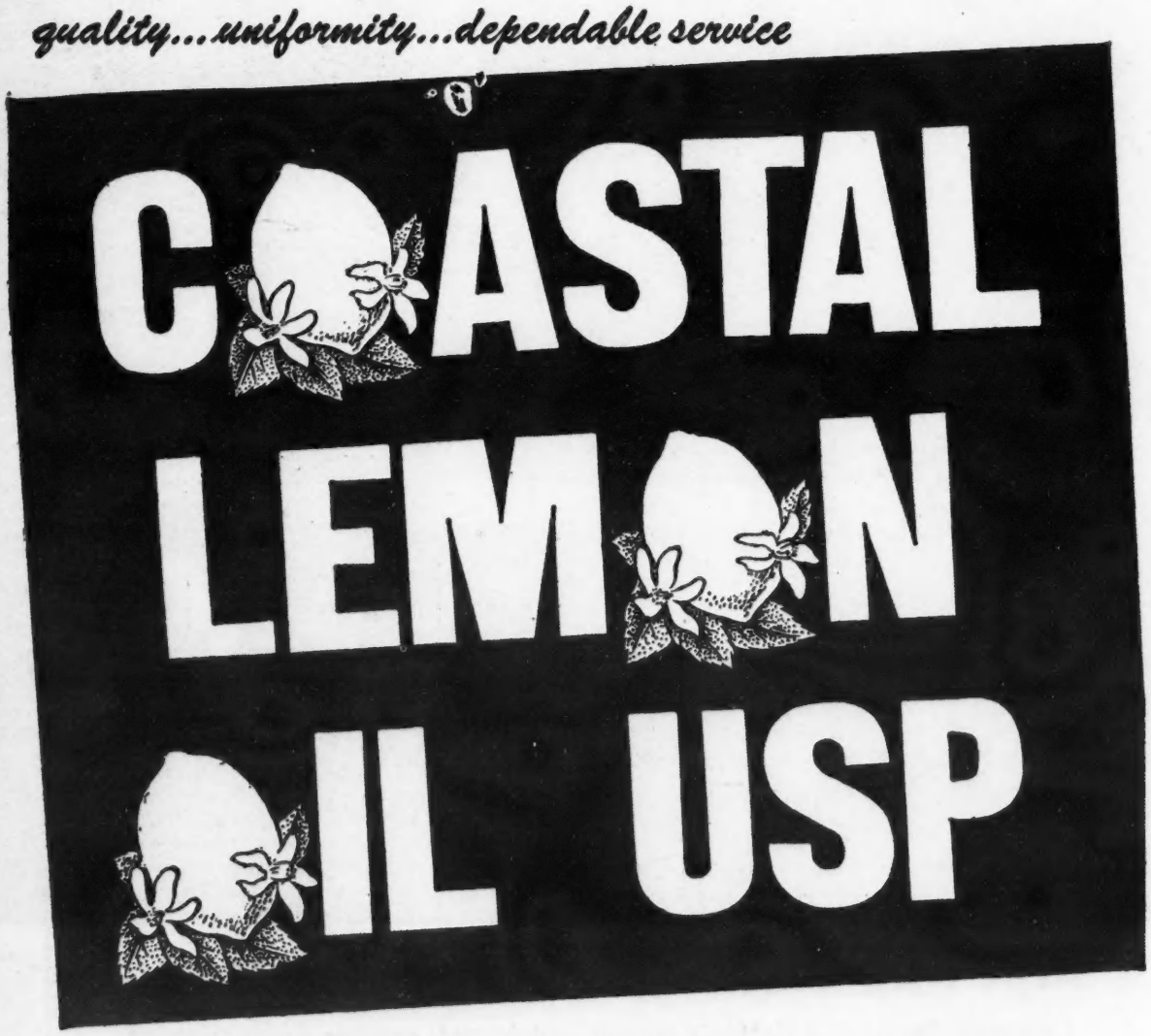
Karaya Gum—Lithol Red Toner

Karaya gum. No 1. NF powd., bls	lb.	.48	.50
No 2, powd. bbls.	lb.	.43	.45
No 3. powd. bbls.	lb.	.37	.40
Koch acid bbls. frt. alld., 100% basis	lb	1.00	—
Kola nuts, bgs.	lb.	.11	- .12

L

L acid, bbls., works	lb	1.25	- —
Lacquer diluent petroleum, 140°F. 200°F b.r., tankcars, New Jersey and New York gal		.20	—
Group 3	gal.	15125	—
Houston, Texas	gal	.16	—
Lacquer diluent petroleum 200°F-240°F b.r. tankcars, New Jersey or New York gal.		.20	- —
Group 3	gal	.14125	—
Houston, Texas	gal.	.16	—
Lactic acid, edible 50%, bbls. dms., c.l., frt equald	lb.	.1985	—
bbls., dms., 20 or more, frt. equald	lb.	.2035	—
bbls., dms., 5 to 19, frt equald.	lb.	.2085	—
bbls. dms. 1 to 4, frt equald.	lb.	.2135	—
Lactic acid, edible 80% bbls., c.l., dms., frt. equald	lb.	.3335	—
bbls., dms., 20 or more, frt equald	lb.	.3385	—
Lactic acid edible, 80% bbls., dms., 5 to 19, frt. equald	lb	.3435	—
bbls. dms. 1 to 4, frt equald.	lb.	.3485	—
Plastic grade, 50%, c.l., bbls., works	lb	.2740	—
bbls., 20 or more, works	lb	.2790	—
bbls. 5 to 19 works	lb	.2840	—
bbls., 1 to 4, works	lb	.2890	—
80% bbls., c.l., works	lb	4625	—
bbls. 5 to 19, works	lb	4725	—
bbls. 1 to 4, works	lb	4775	—
Lactic acid, tech., 44%, bbls., c.l., works	100 lbs.	12.45	- —
bbls., l.c.l., works	100 lbs.	12.85	- —
USP 85% chys.	lb.	.85	- —
Lactose, crystalline, edible, bgs., 23,000-lb lots, frt equald	lb.	.14	- —
bgs., 6,000-lb lots, frt equald	lb.	.14½	- —
bgs., 2,000-lb lots frt equald	lb.	.14¾	- —
bgs., 200-lb lots, frt equald	lb	15¼	- —
Edible lactose in 6lb dms. ½c higher			
Lactose, ferment, grade, bgs., c.l., works	lb.	.06¾	- —
Lactose, USP, reg., fib dms., 30,000-lb lots, frt equald	lb.	.21½	- —
6lb. dms., 3,000-lb lots, frt. equald	lb.	.22¼	- —
200-1,880-lb lots, frt. equald	lb.	.22¾	- —
USP lactose in bags ½c to 1c lower			
Lactose, USP spray dried, bgs., t.l., frt. equald	lb.	.18½	- —
bgs., t.t.l., frt equald	lb	19	19¾
Lady's slipper root, bls	lb.	3.00	3.50
Lamp black, bgs., c.l. works	lb.	.16	.45
Lanolin, USP, anhyd., 400-lb. dms., works	lb.	.24	- .28
USP, anhyd., cosmetic, 400-lb. dms., works	lb.	.26	- .30
USP, hydrous, 400-lb dms., works.	lb.	.20	- —
Lard, cash dms., Chicago	lb.	.11⅛	- —
Lard oil (see Grease oil).			
Larkspur seed bgs.	lb.	.55	- —
Laurel leaf oil, dms. cns.	lb	9.75	-12.50
Laurent's acid, bbls	lb.	.70	—
Lauric acid, pure, dms.	lb.	.30¼	- .32¾
bags	lb.	.28¾	- .31¼
tanks	lb.	.27¾	- —
Lauryl alcohol, bots	lb.	2.00	2.50
n-Lauryl methacrylate, dms., c.l., t.l., works	lb.	.65½	- —
dms. t.t.l., works	lb	.66	- —
Lavandin oil, 22-24%, dms.	lb.	1.15	- —
Abrial, dms.	lb.	1.20	- —
Lavender flowers, medium, bls	lb	.55	.60
Ord., bls.	lb.	.20	.25
Select., bls	lb.	.90	1.00
Lavender flower oil, USP, French, 35-37% ester, cns	lb.	1.85	4.00
40-42% ester, cns	lb.	5.00	7.75
Spike, Spanish, cns	lb.	1.75	- 2.00
Lead acetate, NF, cryst., gran., powd., bbls	lb.	.34½	- —
White, cryst., bbls.	lb.	.25½	- —
gran., bbls.	lb.	.26½	- —
powd. bbls	lb.	.26½	- —
Lead arsenate acid powder, dealers, 3-50-lb. bgs or any quantity frt. alld on $150 or more	lb.	.30½	- —
1-lb bgs., same basis	lb.	.47	- —
Lead, blue, basic sulfate, bbls., c.l., shipt point, frt. alld	lb.	.17	- —
bbls., l.c.l., same basis	lb.	.18	- —
Lead carbonate (see Lead, white, basic carbonate).			
Lead chloride, dms.	lb	.32	- —
Lead iodide, NF, V fars.	lb	3.82	- —
Lead linoleate, fused, 26.5% Pb, dms.	lb.	.38	- —
Lead metal, prime, pigs, New York.	lb.	.11	- —
St. Louis	lb.	.1080	—
Lead monosilicate, bgs., c.l., works, frt equald	lb.	.1385	—
bgs., t.c.l., same basis	lb	.1485	—
Lead naphthenate, liq., 16% Pb., dms., dlvd	lb.	.19½	- —
24% Pb., dms., dlvd.	lb.	.24¼	- —
Solid, 37% Pb., dms., dlvd.	lb	.31¾	- —
Lead nitrate, bbls	lb.	.24¼	- .26¾
Lead orthosilicate gel., 50-60% PbO, dms., works	lb.	.29¾	- .34¼
Lead peroxide, tech powd., bbls	lb.	.45	- .50
Lead phthalate dibasic, dms. works.	lb.	.41	- —
Lead, red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. equald.	lb.	.1375	—
bbls., l.c.l., same basis	lb.	.1475	—
Lead, red, 97% Pb_3O_4, bbls., c.l., same basis	lb.	.1375	—
bbls., l.c.l., same basis	lb.	.1475	—
Lead, red, 98% Pb_3O_4, bbls., c.l., same basis	lb.	.1410	—
bbls., l.c.l., same basis	lb.	.1510	—
Lead, resinate, precip., 23%Pb. dms.,	lb.	.49	- —
Lead salicylate, normal dms. works	lb.	.46	—
Lead silicate (see Lead white basic silicate).			
Lead silicochromate, bgs., c.l., f.o.b mfrs point, frt alld	lb	.20	—
bgs., t.c.l., same basis	lb	.21	—
Lead sulfate (see Lead blue basic sulfate).			
Lead tallate liq. 16% Pb. dms	lb.	.17¼	—
24% Pb, dms	lb.	.21¼	—
Solid, 30% Pb, dms	lb.	.26¾	—
Lead white, basic carbonate, bgs., c.l., shipt pt., frt. alld	lb.	.18	—
bgs., l.c.l., same basis	lb.	19	—
basic silicate bgs. c.l., shipt. pt., frt. alld	lb.	.16½	—
Lead, white, basic silicate, bgs., c.l., shipt. pt., frt. alld	lb.	.17	- —
bgs. t.c.l. same basis	lb.	.18	—
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works.	lb.	.14	.15
non-ret. dms., t.c.l., same basis	lb.	.15	.16
Lecithin, edible, tech., unbleached, non-ret. dms., c.l., same basis	lb.	.13	.14
non-ret. dms., t.c.l., same basis	lb.	.14	.15
Lemon bioflavonoid complex, 50 kilos, f.o.b. works	kilo.	14.20	- —
Lemon oil, USP, Calif., cns., dms	lb	1.25	1.80
Messina cns	lb	3.25	4.00
Lemongrass oil, cns., dms	lb	2.10	- 2.40
dl-Leucine, dms., 1 kilo, works	kilo.	50.00	- —
Licorice root gran. bls	lb	.13	—
Powd. bls.	lb	.15	.16
Whole bls.	lb	.09	.10
Lignaloe wood oil, Mexican, cns	lb	2.75	3.50
Lignosulfonate (see under Ammonium or Sodium lignin sulfonate)			
Lilac oil	lb.	1,500.00	
Lime, chemical (quicklime), bulk, c.l., 50,000 lbs. works, E	ton.	14.25	—
Chemical, hydrated, bgs., c.l., same basis	ton.	17.25	—
spray, bgs., c.l. same basis	ton.	18.25	—
For New York delivery add $6.29 freight charge			
Lime oil, dist., Mexican, dms	lb.	5.00	- 5.60
West Indian, dms	lb.	5.00	- 5.60
Expressed, West Indian, dms.	lb.	6.50	- 7.75
Lime salts (see Calcium)			
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).			
Linalool, ex bois de rose oil, dms	lb	2.45	4.25
Syn., 98-100% dms., works	lb	2.40	2.75
Linalyl acetate ex bois de rose 90-92%, dms	lb	2.65	4.50
96-98% dms	lb	3.25	—
Syn., 98-100%, dms., works	lb.	2.75	- —
Lindane, 25% formulation, to distributors, dms. frt. alld.	lb.	1.35	1.50
Lindane, tech., to formulators, 250-lb. dms., 5,000 lbs. dlvd.	lb	2.13	- —
100-lb. dms., 5,000-lbs. dlvd	lb.	2.15	- —
250-lb. dms., less than 5,000-lbs., dlvd	lb.	2.18	- —
100-lb. dms., less than 5,000-lbs. dlvd	lb.	2.20	- —
Linden flowers, with leaves, bls	lb.	.35	- .40
Without leaves bls.	lb.	.42	.45
Linseed meal, expeller, 32% bulk, Minneapolis, mills	ton.	61.50	- —
Extracted, 34% bulk, same basis.	ton.	56.00	- —
Linseed oil, raw, dms., c.l., New York	lb.	.1620	—
dms., l.c.l., New York	lb.	.1710	- .1760
tanks, f.o.b. Minneapolis	lb.	.1260	—
tanks, New York	lb.	.1372	—
tankwagon, New York	lb.	.1432	—
Boiled linseed oil, .006c. per lb. higher.			
Linseed oil, acid, dist., dms	lb.	.1980	—
Water-white, dms.	lb.	.2260	—
Litharge, coml., powd., bbls., c.l., works, frt. equald	lb.	.1325	—
bbls., l.c.l., same basis	lb.	.1425	—
Lithium aluminum hydride, lump, dms., works	lb.	33.00	39.00
Lithium benzoate, dms.	lb.	1.65	1.67
Lithium bromide, NF, gran., bgs., works, frt. equald	lb.	2.60	—
Lithium carbonate NF, dms., c.l., t.l., dlvd	lb.	1.29½	—
dms., ton lots to t.l., dlvd	lb.	1.30	1.30½
Tech., dms., c.l., frt. alld	lb.	.67	- —
dms., t.l., same basis	lb.	.73	- —
dms., ton lots, same basis	lb.	.76	- —
dms., smaller lots, f.o.b., plant.	lb.	.81	- —
Lithium chloride, CP, anhyd., dms., ton lots	lb.	1.23½	- —
Tech., anhyd., dms., c.l., t.l., dlvd. or works, frt. alld	lb.	.87	- —
dms. l.c.l. same basis	lb.	.88	.93
Lithium citrate, NF dms. ton lots.	lb.	1.50	- —
Lithium fluoride, dms., 20,000-lb. lots, dlvd	lb.	1.75	- —
bbls., ton lots and more, dlvd	lb.	1.85	- —
bbls., less ton lots, dlvd	lb.	1.90	- —
Lithium hydride, powd., dms., 500-lbs lots or more works.	lb.	9.50	- —
Lithium hydroxide, monohydrate, dms. c.l., t.l., frt. alld	lb.	.72	- —
dms., l.c.l., frt. alld.	lb.	.73	—
Lithium manganite, dms. works	lb.	.93	1.03
Lithium nitrate, tech., dms., 100-lb lots	lb.	1.15	1.25
Lithium salicylate, dms.	lb.	1.60	1.70
Lithium silicate, dms., works	lb.	1.10	1.20
Lithium stearate, dms. c.l., works.	lb.	.47½	- —
dms., ton lots, works	lb.	.48½	- —
dms., less-ton lots, works	lb.	.53½	- —
Lithium sulfate dms. 100-lb. lots.	lb.	1.15	1.25
Lithium titanate dms., works	lb.	1.15	1.25
Lithol red toner, barium, bbls., works	lb.	1.03	- —

quality...uniformity...dependable service



PURE California cold pressed lemon oil produced under continuous scientific quality control . . . bulk blended for uniformity, from desert and coastal grown lemons . . . packaged in tamper-proof containers for your protection . . . and priced to save you money. Our research and laboratory facilities have helped many users with product improvement and cost reduction...perhaps we can help you.

VENTURA PROCESSORS, Ventura, California

DISTRIBUTED BY:

International Flavors & Fragrances, Incorporated
417 Rosehill Place, Elizabeth 2, New Jersey

Ventura Processors, 2325 Vista Del Mar Drive, Ventura, California

Lithol-rubine red toner, pure, bbls., works lb. 1.85 - —
Resinated, bbls., works lb. 1.47 - —
Lithopone, ord., bgs., c.l., dlvd. E. lb. .08¾- —
bgs., l.c.l., dlvd. E. lb. .09½- —
Titanated (high-strength), bgs., c.l., dlvd lb. .11 - —
bgs., l.c.l., dlvd. lb. .12 - —
Lobelia herb, bls. lb. .95 - 1.10
Lobeline sulfate, bots., 50-oz. lots, works oz. 30.00 - —
Locust bean gum, powd., bgs. lb. .35 - .40
Lycododium, cs. lb. 2.50 - 3.00

M

Mace, Siauw, No. 1, bls. lb. 1.58 - —
No. 2, whole, bls. lb. 1.40 - —
siftings, bls. lb. 1.35 - —
Mace oil, dist., cns., dms lb. 9.00 -11.00
Magnesia, calcined, tech., bgs., c.l.s., frt equald lb. .25¾- .26½
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb .28¾- .30
rubber grade, extra light, bgs., c.l., frt equald lb .28 —
bgs., l.c.l., frt equald lb .28¾- —
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points
Magnesia, calcined, tech., heavy, 85% bgs. c.l., f.o.b. Gabbing, Nev ton 39.50 - —
91%, bgs., c.l., same basis ton 49.50 - —
95%, bgs., c.l., same basis ton 59.00 - —
USP light, bgs. lb 36½- .37½
USP, heavy, bgs lb 36½- .37½
Magnesite chemical grade, calcined, powd., bgs., c.l., works, frt equald ton 86.25 - —
Chemical grade, deadburnt, standard grain bulk c.l. Chewelah Wash ton 46.00 - —
Magnesium bromide, 80-lb. dm., f.o.b. works lb. 1.13 - —
Magnesium carbonate, tech., bgs., c.l., frt. equald lb .11 - —
bgs., t.l., frt equald lb. .11½- —
bgs., l.c.l. frt equald lb .13½- .14
Magnesium carbonate, USP, bgs., c.l., frt. equald lb. .13½- —
bgs. t.l., frt equald lb .14 —
bgs., l.c.l. frt equald lb 15 16
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points.
Magnesium chloride, annyd., 92%, flake or pebble, drums., c.l. works lb. .12¾- —
dms. l.c.l., works lb 14 .15
Magnesium chloride, hydrous, 99% flake, bgs., c.l., works ton 60.00 —
bgs., l.c.l., works ton 75.00 -100.00
Magnesium gluconate 100-lb dm. f.o.b works E lb. 1.42 —
Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b. works, lb. .24½- .25½
Magnesium lauryl sulfate, dms., c.l., frt. alld lb. .22½- —
dms., t.l., frt alld lb. .23½- —
tanks, frt alld. lb. .21½- —
Magnesium metal, 99.8%, ingots, 10,000-lb. lots or more, works lb .36 - —
pigs, 10,000-lb. lots or more, works lb. .35¼- —
sticks, cs., works, frt alld on carlots lb. .59 - —
Magnesium nitrate, cryst., dms., works lb. .29 - —
Magnesium oxide (see Magnesia, calcined).
Magnesium phosphate, tribasic, NF, bbls lb. .75 - —
Magnesium silicate (see Talc)
Magnesium silicofluoride, dms., works lb .10½- .12
Magnesium sulfate, tech., bgs., c.l., works 100 lbs. 2.15 —
bgs, l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
bgs. l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
bgs., smaller lots 100 lbs. 3.35 - —
Magnesium trisilicate, USP, fib dms., 5,000-lb. lots lb. .38 - —
fib. dms., 1,000-lb. lots lb. .40 - —
fib. dms., 100-lb. lots lb. .45 - —
Bulky and super grades of magnesium trisilicate 7c. per lb. higher.
Malachite green, straight, PTA, bbls., works lb. 5.30 - —
Malathion, dms., c.l., works lb. 89 - —
dms., l.c.l., works lb. .92 1.01
Maleic acid, cryst., powd. dms lb. .37¼- —
Maleic anhydride, dms c.l. frt. equald lb. .24 —
dms., l.c.l., frt. equald lb. .25½- —
tanks, frt equald lb 22½ —
Maleic anhydride in bags ½c. per lb. less
Malic acid, tech., dms lb .50 —
Mandelic acid, NF, dms., 1,000-lb lots lb 2.35 —
dms., smaller lots lb 2.40 2.50
Mandrake root, bls. lb. .45 - —
Manganese acetate, dms., dlvd lb. .35 - —
Manganese borate, tech., fib. dms. lb. .23½- —
Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb lots and more, works lb. .11 - .16
Manganese chloride, CP, anhyd., dms., 20,000-lb lots, works lb. .21¾- —
smaller lots, works lb. .23½- —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb lots, burlap paper lined bgs., gross for net works ton. 148.00 - —
40,000 to 99,999-lb lots, paper bgs., same basis ton. 144.50 - —
40,000 to 99,999-lb lots, dms same basis ton. 152.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb lots, $3 per ton higher
Manganese gluconate, dms lb. 1.84 - —
Manganese hydrate, dms., dlvd lb. .35 - —
Manganese hypophosphite, NF dms. lb. 3.52 - —
Manganese linoleate, liq., 4.35% Mn, dms lb. .35¾- —
Solid, precip., 8.2% Mn bbls lb. .41¼ —
Manganese metal, electrolytic, dms., c.l., dlvd. E lb. .34½- —
dms., ton lots, dlvd. E lb. .37 - —
dms., smaller lots, dlvd E lb. .39 - —
Manganese naphthenate, liq., 6% Mn, dms., frt. alld lb. .29¾- —
Manganese resinate, fused, 3½% Mn dms lb 29¼- —
Precip. 6½-7% Mn, dms. lb. .42 - —
Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd. S., E ton. 86.50 - —
bgs., l.c.l., dlvd. S., E ton. 93.50 - —
Manganese tallate, 6%, dms. lb. .28½- —
Manila copal gum, C, bgs. lb. .35 - .39
DBB, bgs. lb. .25 - .28
DK, dust, bgs. lb. .14 Nom.
MA, soft, bgs. lb. .20 - .24
WS, bgs. lb. No stocks.
Mannitol, com'l. fib dms., ton lots, works lb. .60 - —
fib. dms., to ton lots, works lb. .62 - —
fib. dms., single dm., works lb. .65 - —
Marine pitch, dms. lb. .04¼- .05
MBTS (see Mercaptobenzothiazyl disulfide).
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works lb. .26½- —
bgs., l.c.l., works lb. .28 - —
Menadione, USP bots. gram. .044 - .05
Menhaden oil, crude, tanks, works, Atl. & Gulf sb. .06¼- —
Menthol, nat., USP, Brazilian, large crystals, cs lb. 8.10 - 8.25
Nat., USP, Brazilian, regular crystals, cs. lb. 8.00 - —
Japanese cs. lb. 10.50 -12.00
Syn., USP, racemic, 25-lb. lots lb. 4.25 - —
2-Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .44 - —
bgs., fib. dms., less ton lots, same basis lb. .46 - —
Mercaptobenzothiazyl disulfide, bgs., fib dms., ton lots, works, frt. alld lb. .54 - —
bgs. fib dms. less ton lots, same basis lb. .56 - —
Mercuric chloride, NF, cryst., dms., 100 lbs., f.o.b works lb 4.03 - —
USP, gran or powd., 50-lb. dm., 100 lbs. f.o.b. works lb. 3.78 - —
Mercuric cyanide, NF VIII powd., fib. dms lb 5.84 - —
Mercuric iodide, red, NF, 100-lb. dm., f.o.b. works lb. 6.97 - —
Mercuric oxide, red, NF IX 50-lb. dm., 100 lbs. f.o.b works. lb. 4.72 - —
tech., 50-lb. dm., 100 lbs., same basis lb. 4.52 - —
Mercuric oxide, yellow, NF, 50-lb. dm., 100 lbs., same basis. lb 4.89 - —
tech., dms., 100 lbs. lb 4.35 - —
25-lb. fib dm. lb. 4.38 - —
Mercurous chloride (see Calomel).
Mercurous iodide, yellow, NF, 100-lb. dm. f.o.b works lb. 8.22 - —
Mercury, ammoniated (see White precipitate USP XV).
Mercury metal, 76 lbs. per flask, net-flask. 209.00 -212.00
Mesityl oxide, dms., c.l., dlvd lb. .15 —
dms., l.c.l., dlvd. lb. .16½- —
tanks, dlvd lb. .12½- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanilic acid, dms. works lb. .57 - .75
Metanitroparatoluidine (see m-Nitro-toluidine).
Metanitroaniline (see m-Nitroaniline)
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-Tolylenediamine).
Methacrylic acid glacial 98%, dms. truckloads frt equald lb. .42½- —
dms. smaller lots, frt equald. lb. .43 - .75
tanks, works, frt. equald lb. .40 - —
Methanol, nat. denaturing grade, tanks frt alld gal .85 - —
Syn., zone 1, dms., c.l., or t.l. min. dlvd gal. .51½ —
dms., t.c.l., dlvd. gal. .61½ —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .35 - —
tankwagon, 4,000 gal. min., dlvd gal. .30 —
tankwagon, 4,000 gal min., f.o.b. terminal gal. .29 —
Methanol, syn., zone 2, dms., c.l., or t.l., min frt. alld. or dlvd. gal. .55½- —
dms., t.c.l., works gal. .65½- —
tankwagon, 2,000-4,000 gal. lots, min., dlvd., Metropolitan area gal. .39 - —
tanks, 4,000 gal. min., dlvd. gal .34 —
Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methapyrilene fumarate, 100-999 lbs., dms., f.o.b. works, frt. equald lb. 21.73 - —
Methapyrilene hydrochloride, 100-999 lbs., dms., f.o.b. works, frt equald lb. 27.25 - —
Methenamine (see Hexamethylene-tetramine).

New Eastman high-flow retarder solvent offers lacquer formulators 4 important advantages

Higher Solids Content
Better Flowout and Leveling
Lower NC Solution Viscosities with Toluene
Blush Control with Good Solvent Release

Methyl isoamyl ketone (MIAK) is a new high-boiling solvent with remarkably high solvency for nitrocellulose, cellulose acetate butyrate, acrylics and vinyl copolymers. Its unusual solvent power permits you to formulate high solids lacquers that exhibit superior flowout and leveling. Its solvency is greater even than that of n-butyl acetate. (See table at right)

MIAK has a high toluene dilution ratio (4.1). Of even greater significance, however, is the low viscosity of MIAK/toluene-nitrocellulose solutions. As the graph at right indicates, the viscosity of such solutions is lower than that of 2-ethoxyethyl acetate/toluene or even methyl isobutyl ketone/toluene solutions.

With an evaporation rate of 0.55, MIAK is slow enough to provide excellent blush control, yet not so slow as to delay sanding and rubbing operations.

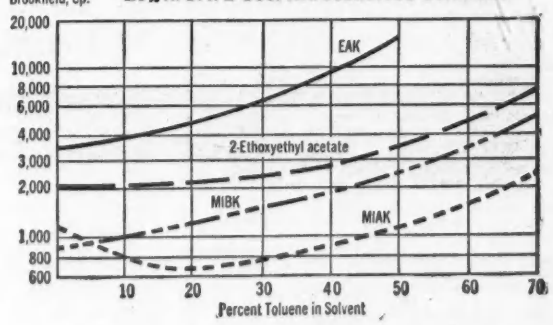
Another point. MIAK has a mild ester-like odor, much more pleasant than the characteristic odor of the higher ketone solvents.

Investigate this new high-flow, retarder solvent in your formulations. Its cost per gallon is competitive with most other retarder-type solvents. Write for a sample of methyl isoamyl ketone and Technical Data Sheet M-105.

Comparison of Solvent Power of MIAK with Other Solvents
Viscosity, cps. @ 25° C.

Solvent	Evaporation Rate	10% ½ Sec.R.S. Nitrocellulose	10% Half-Second Butyrate	20% Acryloid B-82 Resin	20% VYNH Copolymer
MIBK	1.6	30	23	15	138
n-Butyl Acetate	1.0	44	36	26	GEL
MIAK	0.55	44	33	21	188
Ethyl Amyl Ketone	0.3	86	Ins.	28	286
2-Ethoxyethyl Acetate	0.2	122	68	50	Ins.

Effect of Toluene on the Viscosity of 20% R.S. 1/2 Sec. Nitrocellulose Solutions



MIAK
Eastman high-flow retarder solvent

Eastman CHEMICAL PRODUCTS, INC., subsidiary of Eastman Kodak Company, KINGSPORT, TENNESSEE

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tennessee; Atlanta; Boston; Buffalo; Chicago; Cincinnati; Cleveland; Detroit; Greensboro, N. C.; Houston; Kansas City, Mo.; New York; Philadelphia; St. Louis.
Western Sales Representative: Wilson & Geo. Meyer & Company, San Francisco; Los Angeles; Portland; Salt Lake City; Seattle.

Methionine hydroxyanalogue, (calcium salt) 90% min., dms., t.l., frt alld lb 1.10 : —
dms., l.t.l., same basis lb 1.16 : —
dl-Methionine, fib dms., frt alld., 50-lb or more lb 3.50 . —
Feed grade, 98% fib dms, same basis lb 1.43 . —
Methoxychlor 50% wettable powder, dealers dms cs lb 60 —
Methyl abietate, non ret dms., c.l., dlvd zone 1 lb 21½- —
non ret dms, l.c.l, same basis lb .22 .22½
Methyl abietate hydrogenated, non-ret dms, c.l, dlvd zone 1 lb 23½- —
non-ret dms, l.c.l, same basis lb 24 24½
Zone 1 includes New England and Middle Atlantic states, Va, W Va, N C, Ohio, Ky., Mich and Ill, Wis, St Paul and Minneapolis, Minn; St Louis, Mo; Miss, Ala, Ga., Fla, S C and Tenn
Methyl acetone, nat, dms, c.l, E of Miss, frt alld gal 62½- —
Methyl acetone, syn, dms, c.l, frt, alld E gal 66 —
Methyl acetone, syn, dms, l.c.l, frt alld E gal 76 —
tanks frt alld E gal 51 —
Synthetic methyl acetone E territory comprises all states East of and including Colo., Mont, N Mex and Wyo. West territory is made up of 7 states west of those four
Methyl acrylate, dms, c.l, t.l, dlvd lb .35¼- —
dms, l.t.l, dlvd lb .36¼- —
tanks, dlvd lb .32¼- —
Methyl alcohol (see Methanol)
Methyl amyl acetate, dms, c.l, dlvd E lb 17 —
dms, t.c.l, dlvd E lb 18½ —
tanks, dlvd E lb 14½ —
Methyl amyl alcohol, dms, c.l, dlvd, dms, t.c.l, dlvd lb 17 —
tanks, dlvd lb 18½ —
Methyl amyl ketone, dms, c.l, t.l, f.o.b works lb 1.99¼- —
dms, l.c.l, same basis lb 2.00 . —
N-Methylaniline, tech, tanks, frt, alld lb 60 —
Methylanthranilate, cns lb 2.25 2.45
Methyl benzoate, cns, dms lb 60 75
Methyl bromide, service organization prices, 40 to 375-lb, cyls, large lots, frt, alld lb .62 : .72
on 100 lbs lb .73 : .79
Methyl cellulose, special vis., (1,500-4,000 cps) 50-lb bgs, c.l, works lb 82 . —
50-lb bgs, 2,000-lb lots and more, same basis lb 89 . —
50-lb bgs, smaller lots, frt alld on 100 lbs lb 1.05 —
Methyl cellulose, standard vis (15-400 cps.) 50-lb. bgs., c.l., frt. alld. lb. .69 . —
50-lb bgs, 2,000-lb lots and more same basis lb 76 —
50-lb bgs, smaller lots, frt, alld, Methyl chloride, indust, cyls, trf, equald lb 22¼ —
tanks, multi-unit, same basis, lb 16¼ —
tanks, single unit same basis, lb 12¾ —
Methyl chloride, refrigerator mfrs., cyls, dlvd lb .48¾ —
Other consumers of cyls, men, cyls, dlvd lb 67½ —
Methyl chloroform (see 1,1,1-Trichloroethane).
Methyl cinnamate, cns lb 1.55 1.80
Methyl ethyl ketone, dms., c.l., dlvd lb .15 —
dms., t.c.l., dlvd lb .16½- —
tanks, dlvd lb 12½- —
2-Methyl-5-ethyl pyridine, dms., c.l., works lb 45 —
dms., t.c.l., works lb 45¾- —
tanks, works lb 43 —
Methyl formate, refd, dms lb 35 .40
Tech, non-ret dms., any quantity works lb 10 —
tanks, works lb 07 . —
a-D Methyl glucoside, tech., 100-lb, multiwall paper bgs., c.l., works lb 21 . —
100-lb, multiwall paper bgs., t.l., min 23,000 lbs., works, lb 21¼ —
100-lb multiwall paper bgs., l.t.l, works lb 23 —
Methyl heptin carbonate, bots lb 27.75 31.00
Methyl p-hydroxybenzoate, fib dms lb 1.90 2.00
Methyl ionone, standard, cns, dms lb 3.40 3.85
Methyl isoamyl ketone, dms., c.l., dlvd lb 20 —
dms, t.c.l., dlvd lb 20½- —
tanks, dlvd lb 17½ —
Methyl isobutenyl carbinol (see Methyl amyl alcohol)
Methyl isobutyl ketone, dms., c.l., dlvd lb .17 —
dms., t.c.l., dlvd lb 18½ —
tanks, dlvd lb 14½ —
Methyl methacrylate, dms., c.l., t.l., frt equald, with Belle, W Va lb 31 —
dms., smaller lots, same basis lb 31½- —
tanks, same basis lb 29 —
Methyl naphthyl ketone, cryst., cns lb 2.45 4.30
Methyl parahydroxybenzoate (see p-Hydroxybenzoate)
Methyl parathion, tech., 80% dms., frt alld E lb 84 . —
Methyl parathion prices 2c per lb higher in West
Methyl roseaniline chloride, NF., 5-lb fib dms lb 6.90 . —
Methyl salicylate, dms, t.l., frt alld lb 60¼ —
dms., t.c.l, same basis lb 62½ 67½
Methyl testosterone USP, 100-gram bots gram No Prices
2-Methyl-5-vinyl pyridine, 40-dm lots or more, f.o.b. works lb 1.32 . —
5-39 dm lots, same basis lb 1.37 . —
tanks, same basis lb 1.27 . —
Methyl violet toner, molybdated, PMA bbls, dlvd E of Rockies lb 2.95 . —
Tungstated PTMA bbls, same basis lb 4.35 —
Methyl violet prices 1c higher W of Rockies
Methylene blue, fib dms, 100-lb lots, frt, adjusted lb. 4.67 —
Methylene chloride, tech, straight or assorted dms, c.l or t.l., dlvd lb. .12½- —
dms, t.c.l, dlvd lb 15¾ —
tanks, 4,000-gal. min., dlvd lb. .11¼- —
b-Methylnaphthalene, 82 c.m.p. dms, works lb 90 —
Methylpentanediol (see Hexylene glycol)

Methylphenylpyrazolone (see 1-phenyl-3-methyl-pyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb .04 : —
roofing, 20 to 80 mesh, works lb. .03 : —
wet-grd., biotite, bgs., c.l., works, frt alld E lb 06½- —
bgs, t.c.l., ex-whse lb. 07¼- —
paint or lacq., bgs., c.l., 325 mesh works, frt alld E, bgs, t.c.l, ex-whse or freight alld E lb. .08¼- —
Mica, wet-grd., rubber, bgs., c.l., works, frt, alld E lb .09 . —
bgs, t.c.l, ex-whse, or frt, alld E lb .08 . —
wallpaper, bgs, c.l, works, frt, alld E lb 08¾ —
bgs, ex-whse or frt alld E, lb 08¾ —
white, 5-10 microns, bgs., c.l., works, frt alld E lb .09 —
Mica, wet-grd, W of Miss ½c higher; W. of Rockies 1c higher
Microcrystalline wax, petroleum, coating grades, tankcars, works lb .10 .11
laminating grades, tankcars, works lb .11 .12
Mineral black, bgs, works lb .0160- .0673
Mineral oil, white tech, 50-65 vis., non ret dms, c.l, f.o.b refy gal 65 . —
50-65 vis non-ret dms., t.c.l., basis gal 70 . —
tankcars, refy gal 49 . —
Mineral oil, white tech, 65-75 vis., non-ret dms, c.l., same basis gal. 65 . —
non-ret dms, t.c.l, same basis gal 70 . —
tankcars, refy gal 49 . —
NF, 80-90% vis, non-ret, dms., c.l., same basis gal 66 . —
non-ret dms, t.c.l., same basis gal 71 . —
tankcars, refy gal 50 . —
Mineral oil, white, NF, 135-138 vis., non-ret, dms., c.l., same basis gal. .72 . —
Mineral oil, white, NF, 135-138 vis., non-ret dms., t.c.l., same basis gal 77 . —
tankcars, refy gal 56 . —
Mineral oil, white, NF, 145-155 vis., 5 non-ret, dms., c.l., same basis gal. .78 . —
non-ret dms, t.c.l., same basis gal 83 . —
tankcars, refy gal 62 . —
Mineral oil, white, USP, 180-190 vis., non-ret dms, c.l, same basis gal. 80½ —
non-ret dms, t.c.l, same basis gal 85½- —
tankcars, refy gal. 64½- —
Mineral oil, white, USP, 200-210 vis., non-ret dms., c.l., f.o.b. refy gal. .82½- —
non-ret dms, t.c.l gal 87½ —
tankcars, refy gal 66½- —
Mineral oil, white, USP, 340-350 vis., non-ret dms., c.l., f.o.b. refy gal. .87½- —
non-ret dms, t.c.l gal 92½ —
tankcars, refy gal 71½ —
(For f.o.b N Y add 2c for tankcars; 2c. for c.l. and 3c for t.c.l non-ret dms.).
Mineral orange, American, bbls, c.l., works lb. .16 : —
bbls., t.c.l., same basis lb. .17 : —
Mineral spirits, petroleum, odorless, tankcars, New Jersey gal. 29 —
New York gal. 305 —
Houston, Texas gal. 25 —
regular tankcars, New Jersey and New York gal. .18 —
Group 3 gal. .12875- —
Houston, Texas gal. 145 —
Mineral spirits, 140 F, flash, New York, New Jersey at terminal gal. .205 . —
Houston, Texas gal. .17 . —
Mink oil, dms lb. 2.75 . —
Mirbane oil (see Nitrobenzene).
MNPT maroon toner, kgs., c.l., works lb 6.30 . —
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .13 . .13¼
tanks, New York gal. .15 . .16
Molybdated orange, bbls lb .49 —
Molybdenum metal, powd., 80 or 200 mesh, ctns., works kilo 7.84 . —
325 mesh, ctns, works kilo 9.13 . —
Molybdenum trioxide, purif., dms., works lb 1.15 . —
Tech, chemical, dms., works, basis Mo content lb 1.48 . —
Tech., metallurgical, dms., works, basis Mo content lb 1.47 . —
Molybdic acid, 85% dms, works, lb 1.05 1.15
Monoallylamine, dms., c.l., dlvd lb. 965 —
dms., c.l., dlvd, tanks, dlvd lb. 995 —
Monobutylamine, dms., c.l., dlvd E of Rockies lb. 96 . —
dms., t.c.l., same basis lb 57½- —
tanks, same basis lb 59 —
Mono-tert-butyl-m-cresol, dms., c.l., works lb 55 . —
dms., t.c.l., works lb 56 . —
tanks, works lb .54 . —
Monochloracetic acid, purif. (see Chloroacetic acid, mono).
Monochlorobenzene, dms., c.l., frt, alld or dlvd E lb. .10½- —
dms., t.c.l., same basis lb. .11½- —
tanks, same basis lb. 08¾ —
Monochlorobenzene prices in the West 1¾c. higher.
Monoethanolamine, dms, c.l., dlvd, E lb 27½- —
dms., t.c.l., same basis lb 29 . —
tanks, same basis lb 25 . —
Monoethylalphanaphthylamine (see n-Ethyl-a-naphthylamine).
Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd, E 100% basis lb. .38½- —
dms, t.c.l, dlvd E, 100% basis, tanks dlvd E, 100% basis lb 40 . —
Monoethylaniline (see N-Ethylaniline)
Monoethylorthotoluidine (see N-Ethyl-o-toluidine) lb 35 . —
Monoisopropanolamine, dms., c.l., dlvd E lb 27½- —
dms., t.c.l., same basis lb 29 —
tanks, same basis lb 25 —
Monoisopropylamine, anhyd., dms., c.l., dlvd lb 33½- —
dms., t.c.l, same basis lb 35 . —
tanks, same basis lb 31 . —
Monomethylamine, anhyd., cyls., t.c.l, frt equald., 100% basis lb 30 . —
tanks, 100% basis lb 26 . —
30-35% soln., dms., c.l., frt, equald, 100% basis lb 36 —

Monomethylamine, 30-35% soln., dms., t.c.l., frt equald, 100% basis lb. .36½- —
tanks, frt, equald., 100% basis, lb. .26 . —
40% soln., dms, frt equald., 100% basis lb. .33 . —
dms., t.c.l., frt equald, 100% basis lb .33½- —
tanks, frt equald, 100% basis, lb. 26 —
Monopentaerythritol, tech., bgs., c.l., dlvd E lb .31 . —
bgs., t.c.l., dlvd E lb 32 . —
Monopotassium glutamate, dms., 1,000 lb lots frt alld lb 3.05 . —
dms, 100 lb lots, same basis lb 3.25 . —
Monosodium glutamate, dms, dlvd, lb 1.07 1.15
Monosodium phosphate (see sodium phosphate, monobasic)
Montan wax, Calif, refd, bgs lb .27 .28
Imp., crude, Bohemian, bgs lb. .25 - .26
German, bgs lb .25 .26
Morphine, cns, 100-oz, f.o.b works oz 12.35 . —
Morphine hydrobromide, cns., 100-oz., f.o.b works oz 9.90 . —
Morphine hydrochloride, NF, cns., 100-oz., f.o.b works oz 9.90 . —
Morphine sulfate, USP, cns, 100-oz., f.o.b works oz 9.90 . —
Morpholine, dms, c.l, dlvd E lb 55¼ —
dms., t.c.l., dlvd, E lb. .56¾- —
tanks, dlvd, E lb 52¾ —
Muriatic acid (see Hydrochloric acid).
Musk, syn, ambrette, fib dms., 100-lb lots lb 4.40 4.90
cns, 25-lb lots lb 4.50 5.00
Ketone, fib dms., 100-lb lots lb 4.60 5.10
cns, 25-lb lots lb 4.70 5.20
Xylol, fib, dms, 100-lb lots lb 1.26 —
cns, 25-lb lots lb 1.40 —
Mustard seed, Danish, yellow, bgs, Montana, yellow, bgs lb. .12 . —
Oriental, bgs lb 10½- —
Mustard, oil, syn, bots lb 1.60 1.85
Myristic acid, bgs, tanks lb. .23¾- .25¾
Myrrh gum, cs lb. .22¼- —
lb 65 .75

N

Naphtha, high solvency (see Solvent naphtha, petroleum)
Naphtha, petroleum, cleaner's (see Cleaner's naphtha)
Naphtha, VM&P, petroleum, tankcars, New Jersey and New York gal. .19 . —
Group 3 gal. .13875- —
Houston, Texas gal. .155 —
Naphthalene, crude, dom., 78°, tanks, frt, equald lb. .06¼- .07
imp., 78° bgs, large lots lb 09½ Nom
Refd, indust, chipped, crushed, bgs, frt equald lb. .13½ —
tanks, same basis lb. 10¾ —
Naphthalene, refd, indust., balls, flakes, wholesalers, jobbers, bbls, c.l, same basis, lb .15½- —
cs, 50 lbs, c.l, same basis, lb .15¾- —
1-lb pkgs, c.l, same basis, lb. .18½- —
a-Naphthol, dms, frt alld lb 1.02 —
b-Naphthol, tech, flake, bbls., c.l., works lb .34 . —
bbls, t.c.l, works lb .36 . —
Naphthol, ITR, reg, toner, bbls, works lb 5.00 . —
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid)
1-Naphthol-4 sulfonic acid (see Neville and Winther's acid)
1-Naphthol-5-sulfonic acid (see L acid)
1-Naphthol-5-sulfonic 8-amino acid (see S acid)
2-Naphthol-6,8-disulfonic acid (see Gamma acid)
Naphthol sulfonic mixed acid (see Cleve's acid)
a-Naphthylamine, dms, frt, alld lb. .53 . —
b-Naphthylamine, tech, flake, bbls, works lb 1.60 . —
1-Naphthylamine-5-sulfonic acid (see Laurent's acid)
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid)
2-Naphthylamine-1-sulfonic acid (see Tobias acid)
2-Naphthylamine-6-sulfonic acid (see Broenner's acid)
2-Naphthylamine-7-sulfonic acid (see F acid)
Naringin, fib dms lb 8.50 —
Neatsfoot oil, 15° cold test, dms lb 29 Nom.
20° cold test, dms lb. .28 Nom.
30° cold test, dms lb. .27 Nom
Neocinchophen, USP, dms., frt, adjusted lb 7.00 8.00
Neomycin sulfate, fib dms, 1-kilo basis activity gram. .25 —
fib dms, 100-999-gram lots, basis activity gram. .30 —
Tech, fib dms gram .13½- —
Neopentylglycol, dms., c.l., dlvd lb .32 —
dms, t.c.l, same basis lb .33 —
Nerol, dms lb 4.75 —
Neroli oil, NF, French, bots lb. 425.00 575.00
Tunisian, bots lb. 400.00 —
Nerolin, cns lb 2.45 2.85
Neville and Winther's acid, dms., frt alld lb 1.40 —
Niacinamide (see Nicotinamide)
Nickel acetate, bbls, dlvd lb. .68½- .75½
Nickel carbonate, bbls, dlvd lb. 78¼- .85¼
Nickel chloride, bbls, dlvd lb. .37 .45
Nickel formate, bbls., ton lots, frt, alld lb. .72 .73
Nickel metal, electro cathodes, cs., works lb .74 —
Nickel nitrate, dms, frt alld lb. .31½- .33½
Nickel oxide, black, bbls. lb. .85 —
Green, bbls lb. .84 —
Nickel sulfate, bgs., c.l., dlvd lb. .28 —
bgs, t.c.l., dlvd lb. .28½- .36
Nicotinamide, USP, 50-kilo, dms., 100 kilos., dlvd kilo. 5.75 - 6.50
dms, less than 100 kilos, dlvd, kilo. 6.25 - 7.00
Nicotinamide hydrochloride, 50 dms., dlvd kilo. 6.50 - 7.50
Nicotine sulfate, 40% dealers, 50-lb drms frt alld lb 1.20 . —
40% manufacturers, 500-lb. drms., frt alld lb 1.05 . —
Nicotinic amide, USP (see Nicotinamide)
Niger seed, bgs lb 10¼- —
Nikethamide, chys. lb 5.00 —
Nitric acid, 36° Be., chys., c.l., works E 100 lbs. 5.75 —
chys., t.c.l, works E 100 lbs. 6.05 6.85
38° Be., cbys, c.l., works E 100 lbs 6.25 —
cbys., t.c.l., works E 100 lbs. 6.55 7.35
40° Be., cbys, c.l., works E 100 lbs. 6.75 —
cbys., t.c.l., works E 100 lbs. 7.05 7.85
42° Be., chys., c.l, works E 100 lbs 7.25 —
cbys., t.c.l., works E 100 lbs. 7.55 8.35
56.5 to 68%, HNO_3, tanks, works, 100% basis 100 lbs. 3.90 —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 . —
Nitric acid, CP, NF, consumer, cbys., extra, c.l., works lb. .18½- —
cbys, extra, t.c.l., works, lb. .20 . —
5-pint bots, extra, cs., c.l., same basis lb. .22½- —
5-pint bots, extra, cs, t.c.l., same basis lb .24 .26
dms, frt alld lb. 96 . —
4-Nitro-2-aminophenol, tech., paste, dms., t.c.l., works lb. .64 . —
m-Nitroaniline, cryst., dms., frt alld lb 1.15 . —
Paste, dms., frt. alld., 100% basis 1.10 . —
o-Nitroaniline, flaked, dms, t.l., frt alld lb 49 . —
dms, t.l.l, frt alld lb 51 . —
o-Nitroaniline, orange, toner, kgs 1.50 —
p-Nitroaniline, c.l., t.l., dms., 20,000 lb min., dlvd lb. .44½- —
dms, t.c.l., same basis lb 46½ —
o-Nitroanisole, tech, tanks, frt alld lb 17 —
p-Nitroanisole, tech, solid, dms., frt alld lb 36 —
Nitrobenzene, dbl dist, dms, c.l., frt alld lb 72 —
dms, t.c.l, frt alld lb 13 —
tanks, frt alld lb 14 —
p-Nitrobenzoic acid, dms, c.l., works lb 63 —
Nitrocellulose, ester-soluble, 30-35 cps., ¼ ½ ¾ 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls, c.l, works lb 37½ —
18-20 cps, bbls, c.l., same basis lb 33½ 40⅛
bbls, t.c.l., same basis lb 39½ —
250-400, 600-1,000 seconds, bbls., t.c.l, same basis lb 40½ 42⅛
Nitrocellulose, spirit soluble, 30-35 cps, ¼ ½ seconds, bbls, c.l, same basis lb 43 46
bbls, t.c.l., same basis lb 43 —
5-6 cps, 40-60 seconds, bbls, t.c.l, same basis lb 44 46
bbls, t.c.l., same basis lb 42 —
bbls, t.c.l., same basis lb 43 45
Denatured alcohol used in the manufacture of nitrocellulose is charged extra, extra but returnable Drums
o-Nitrochlorobenzene, dms, c.l., frt alld lb 15 —
dms, t.c.l, same basis lb .16 —
tanks, same basis lb 13 —
p-Nitrochlorobenzene, dms lb 26 37
2-Nitro-p-cresol, tech., dms., dlvd lb 88 —
Nitroethane, dms, c.l, dlvd E lb 25 —
dms, t.c.l., dlvd E lb 25½ —
tanks, dlvd E lb 22¼ —
Nitroethane prices West of Rockies are 1c higher
Nitrogen solutions, direct application, tanks, f.o.b. works, unit-ton. 1.64 . —
Manufacturing type, same basis, unit-ton. 1.32 . —
Nitrogen tetroxide, indust., tankcars, f.o.b Hopewell, Va lb. .065 —
Cyls, t.l., min 5 tons, same basis lb. .07½- —
Cyls., t.c.l, t.l.l, same basis lb. .15 —
Nitrogenous process tankage, bulk, works, unit ton 4.50 5.00
Nitrogenous sewage sludge, bulk, f.o.b Chicago works unit 3.50 . —
(The foregoing price is per unit NH_3, plus 50c, per unit a.p.a., bulk, f.o.b. producers works, Chicago.)
Nitromethane, dms, t.l., dlvd, E lb 25 —
dms, t.t.l, dlvd E lb 26½ —
Nitromethane prices West of Rockies are 1c higher
a-Nitronaphthalene, bbls, frt, alld, lb .31 . —
o-Nitrophenol, dms., works, frt, equald lb. .94 . —
p-Nitrophenol, dms, c.l, frt alld, dms, t.c.l, frt alld lb .45 . —
1-Nitropropane, dms, c.l., frt alld, E of Rockies lb 47 —
dms, t.c.l, same basis lb 23½- —
tanks, same basis lb .25 —
2-Nitropropane, dms, c.l, frt alld, E of Rockies lb 21 —
dms, t.c.l, same basis lb .18½- —
tanks, same basis lb .20 —
Nitropropane prices West of Rockies are 1c per lb higher lb 16 —
m-Nitrotoluene, tech, dms, frt, alld, lb. .50 . —
o-Nitrotoluene, dms, c.l., frt, alld lb .13 . —
dms, t.c.l, frt alld lb .16 . —
tanks, frt alld lb .13 . —
p-Nitrotoluene, tech., cast, dms., c.l., works lb. .27½- —
dms, t.c.l, works lb. .28 . —
flake, dms., c.l., t.l., works lb. .27½- —
dms, t.c.l, works lb. .28 —
m-Nitro-p-toluidine, dms, lb. 1.25 —
Nonylphenol, dms, c.l, frt, alld lb. .22½- —
dms., t.c.l., frt, alld lb. .23½- —
tanks, frt, alld lb. .20 —
Nonylphenol prices on shipments to Western States are 2c higher
Nutmegs, East Indian, whole, bgs. lb. 1.40 —
West Indian, bgs lb. 1.26 1.28
Nu-meg oil, USP, dist., East Indian, cns lb 9.00 12.00
West Indian, cns lb 9.00 12.00
Nux vomica, bls. lb. .20 —
Powd., bbls, bxs. lb. .20 .22

O

Ocher (see Iron oxide, yellow, nat.).
Ocotea cymbarum oil, dms lb. .46 - .48
Octane, indust, tanks, Bayonne, N J gal. .20 —
1-Octanol, tech., dms., c.l., dlvd., Zone 1 lb. 43½- —
dms., t.c.l., dlvd, Zone 1—lb. 45½- —
tanks, dlvd, Zone 1 lb. 41 —
Octyl alcohol, perfumers grade, bots. lb. 1.60 3.25
Octyl alcohol, tech, (see 1-Octanol, tech)
tert-Octylamine, dms., c.l., t.l., f.o.b. works lb. .54½- —
dms, t.c.l, same basis lb. .55 —
Octylphenol, bgs, c.l., works lb. .22½- —
bgs., t.c.l., works lb. .23 —
tanks, works lb. .21½- —
Octylphenol in dms., 11c. higher.

OILS

Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Oiticica oil, liq., dms tanks lb. .15¼- .15¾
Oleic acid, dbl.-dist. (white), dms lb. .13¾- .14
tanks lb. .17½- .20
S. D., dms lb. .15 . —
tanks lb. .16½- .19
Oleum (see Sulfuric acid, fuming).
Olibanum gum, siftings, cs lb. .15 .20
Tears, cs lb 22 30
Olibanum oil, bots lb 5.00 7.00
Extra fine, bots lb 8.00 9.50

Olive oil, edible, dms., spot, duty paid	gal.	2.35	- 2.40
Olivine, crude, works	ton.	12.00	- —
20 mesh, works	ton.	15.00	- —
100 mesh works	ton.	20.00	- —
Opium, USP, cns., 25-lbs., f.o.b. works	oz.	19.20	- —
gran., cns., 50 lbs., same basis	oz.	21.65	- —
powd., cns., 50 lbs., same basis	oz.	21.65	- —
Orange oil, expressed, USP, Calif., cns., dms	lb.	.70	- .90
Calif., sweet., cns., dms	lb.	.60	- —
Florida, cns., dms	lb.	.40	- .45
Messina, cns.	lb.	3.25	5.00
West Indian bitter, cns., dms.	lb.	2.50	3.50
Orange peel, bitter, Haitian, bls	lb.	.18	.20
Sweet	lb.	.28	.30

ORANGE PIGMENTS

Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

Origanum oil, Spanish, cns	lb	1.80	2.30
Orris root, Florentine, bls	lb	.55	—
powd., bbls. bxs	lb	65	- —
Verona, bls	lb	35	- —
powd., bbls. bxs	lb	45	- —

Orthoanisidine (see o-Anisidine).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)
Orthochloroaniline (see o-Chloroaniline).
Orthochlorobenzoic acid (see o-Chlorobenzoic acid)
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline)
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthocresotinic acid (see 2,3-Creosotic acid).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroaniline (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidine (see o-Pheretidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary amylphenol (see o-tert-Amylphenol)
Orthotolidine (see o-Tolidine base).
Orthotoluidine (see o-Toluidine).

Ouabain, USP, bots.	gram.	3.00	- 4.00
Ouricury wax, crude, bgs.	lb.	.53	- .55
Refd., pure, bgs.	lb.	.58	- .60
Oxalic acid, bgs., c.l., works	lb.	.18	- —
bgs., 10,000-lb. lots, works	lb.	.19	- —
bgs., smaller lots, works	lb.	.20½	- —

Oxalic acid in drums is priced ½c. per lb. higher.

b-Oxynaphthoic acid, pigment manufacture, dms., frt. alld	lb.	.912	- —
Dyestuff manufacture, dms., same basis	lb.	1.03	- 1.14
Oxyquinolin sulfate, cns., 100-lb. lots, works	lb.	4.75	- 5.00
cns., smaller lots, works	lb.	4.92	- 5.17

P

Palm oil, clarif., dms.	lb.	.1400	- .1500
tanks	lb.	.11¼	- —
Palm oil acid, double dist., dms.	lb.	.15¼	- .17¾
single dist., dms.	lb	.14¾	- .17¼
tanks	lb.	.12¼	- —
Palmarosa oil, cns.	lb.	4.90	- 6.00
Papain, powd. bots.	lb.	5.50	-10.00
Papaverine hydrochloride, nat. or syn., USP, cns., 25-oz. to 100-oz. lots	oz.	5.00	- —
cns., smaller lots	oz.	5.05	- 5.20
Papaverine sulfate, nat. or syn., USP, cns	oz.	7.10	- 7.35
Paprika, Bulgarian, bgs.	lb.	.27	- —
Hungarian, bgs.	lb.	.29	- —
Spanish, bgs.	lb.	.30	- —
Yugoslavian, bgs.	lb.	.31	- .37

Para-aminobenzoic acid (see p-Aminobenzoic acid).
Parachlorobenzoic acid (see p-Chlorobenzoic acid).
Paramethylphenylcinchonic acid (see Neocinchophen).
Paranitrobenzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine-m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachlorophenol (see p-Chlorophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2 nitroaniline).
Para-anisidin (see p-Ansidine).
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).

Para toner, red, bbls.	lb.	1.30	- —
Chlorinated, kgs.	lb.	1.41	- —
Paraffin, crude, scale, white, 123°-127°F., ASTM, tanks, refy.	lb.	.0655	- .0660
Paraffin, fully refd., 122°-124°F., ASTM, tanks, refy.	lb.	.0765	- —
125°-127°F., ASTM, tanks, refy.	lb.	.0765	- —
130°-132°F., ASTM, tanks, refy.	lb.	.0765	- —
Paraffin, fully refd., 132°-134°F., ASTM, tanks, refy	lb.	.0765	- —
135°-137°F., ASTM, tanks, refy.	lb.	.0765	- —

AMP temperatures are an arbitrary 3°F. higher than ASTM.

Paraffin oil, pale, 100-110 vis., at 100°F., tanks e a s t coast refy	gal.	.14	- —

Paraffin wax (see Paraffin)

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld	lb.	.10	- —
bgs., l.c.l., frt. alld	lb.	.12	- .13
91%, powd., bgs., c.l., ex whse.	lb.	.1715	- —
bgs., l.c.l., ex whse	lb.	.1865	- —
USP-X, fib dms., c.l.	lb.	.19	- —
fib dms., 1,000-lb. lots	lb.	.20	- —
fib dms., smaller lots	lb.	.21½	- —
Paraldehyde tech., 98%, 55-gal. dms., t.l., dlvd. E	lb.	.14	- —
55-gal. dms., l.c.l., dlvd. E	lb.	.15½	- —
tanks, dlvd. E	lb.	.11½	- —

Paranitroaniline (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene)
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine)
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).

Parathion ethyl, dms., frt. alld	lb.	.84	—

Parathion prices 2c. per lb. higher in West.

Paratoluenesulfonamide (see p-Toluenesulfonamide)			
Passion flower herb, bls	lb.	.35	.40
Patchouli oil, imp., cns.	lb.	5.60	6.50

Peach kernel oil, USP (see Apricot kernel oil).

Peacock blue, fugitive, 100% color strength, 250-lb. bbls., dlvd. E of Rockies	lb.	1.00	- —

Peacock blue price 1c. higher W. of Rockies.

Peanut meal, old process, 45%, bgs., f.o.b. mills	ton.	55.50	- —
solvent, same basis	ton.	52.50	- —
Peanut oil, crude, tanks, f.o.b. mills.	lb.	.14	- —
Refd., dms.	lb.	.19¼	- .19½
tanks	lb.	.17¼	- —
Pectin, dom., NF, citrus, powd., 100 kilos, f.o.b. shipt. pt	kilo.	4.52	- —
Pelargonic acid, dms., c.l., dlvd	lb.	.25	- —
ton lots, same basis	lb.	.27½	- —
tanks, same basis	lb.	.23½	- —
Penicillin, potassium, cryst., bulk, 1,000,000 units.		.018	- —
Penicillin, procaine, cryst., bulk, 1,000,000 units.		.020	- —
Pennyroyal oil, USP, imported, cns.	lb	1.95	- 2.70
Pentachlorophenol, 50-lb. bgs., c.l., t.l., works, frt. equald	lb.	.21	- —
bgs., less than ton-lots, same basis.	lb.	.29	- —
bgs., c.l., t.l., 2,000 lb. minimum, same basis	lb.	.22½	- —

Pentachlorophenol in dms 1c. higher.

Pentaerythritol, tech., bgs., c.l., dlvd	lb.	.31	—
bgs. l.c.l., dlvd	lb	.32	—

Pentaerythritol, di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).

Pentane, indust. tanks, Tex refy.	gal.	.14	- —
Pentobarbital, dms. 100 lbs. or more	lb	6.00	- —
Pepper, black, Malabar, bgs.	lb.	.48	- —
Lampong, bgs.	lb.	.48	- —
Red Puntuas bgs.	lb.	.32	- —
Japanese, Hontoka, bgs.	lb	.37½	- —
Santaka, bgs.	lb.	.31½	- —
Sudanese, bgs.	lb.	.36	- —
White, Muntok, bgs	lb.	.74	- —

Peppermint leaves, dom., USP, bls., dms.	lb.	No stocks.	
imp., USP, dms.	lb.	.85	- .90
Peppermint oil, nat., dms.	lb.	4.90	- 5.25
Redist., USP, dms	lb.	5.50	- —
Perchloroethylene, dms., c.l., or t.l., dlvd.	lb.	.13¼	- —
dms., l.c.l., dlvd.	lb.	.15¼	- —
tanks, dlvd.	lb.	.11¾	- —
tanktruck, 1,000 gal. min. dlvd.	lb.	.12¼	- —
Perl acid, dry, bbls., frt. alld	lb.	1.60	- —
Paste, bbls., frt. alld	lb.	1.55	- —
Peru balsam, dms	lb.	1.15	- 1.50

Persic oil, USP (see Apricot kernel oil).

Petitgrain oil, South American, cns., dms	lb.	2.30	- —
Petrolatum, cream, dms., c.l., refy.	lb.	.08125	- —
dms., l.c.l., dlvd.	lb.	.10125	-.11375
tanks, refy.	lb.	.05875	- —
Extra amber, dms., c.l., refy.	lb.	.07125	- —
dms., l.c.l., dlvd.	lb.	.09125	-.10375
tanks, refy.	lb.	.04875	- —
Petrolatum, lily white, dms., c.l., refy.	lb.	.08625	- —
dms., l.c.l., dlvd.	lb.	.10625	- .12
tanks, refy.	lb.	.06735	- —
Petrolatum, USP, snow white, dms., c.l., refy	lb.	.09125	- —
dms., l.c.l., dlvd	lb.	.11125	- .125
tanks, refy.	lb.	.06875	- —
Petrolatum, USP, soft yellow, dms., c.l., refy	lb.	.07125	- —
dms., l.c.l., dlvd.	lb.	.095	- .10375
tanks, refy.	lb.	.04875	- —

Petroleum pitch (see Asphalt, petroleum).

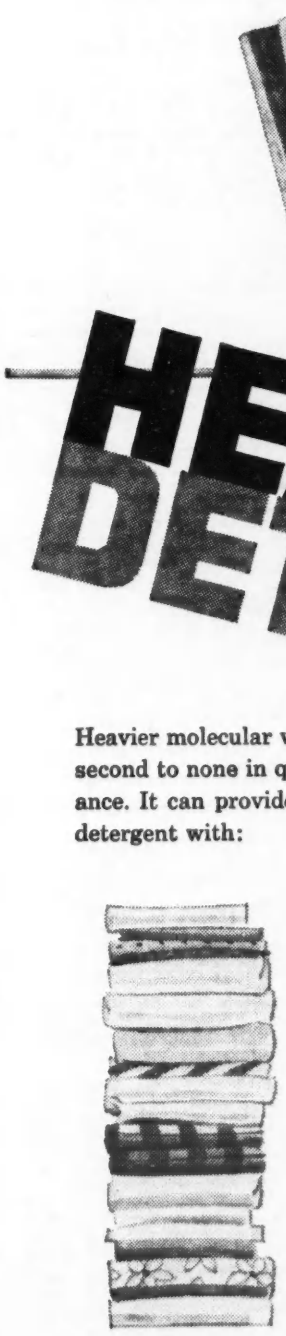
PETROLEUM PRODUCTS

Petroleum product quotations are listed individually. For example, prices on Petroleum mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works.	lb.	.16½	16¾
non-ret. dms., l.c.l., works	lb.	.17½	19
tanks, works	lb.	.14½	17
50-55%, sulfuric content, non-ret. dms., c.l., works	lb.	.16	—
non-ret. dms., l.c.l., works	lb.	.17	- —
tanks, works	lb.	.13	- —
o-Phenetidine, dms., c.l., frt. alld. E	lb	.91	- —
dms., l.c.l., same basis	lb	93	- —
p-Phenetidine, dms., c.l., frt. alld.	lb	1.03	- —
dms. same basis	lb	1.08	- —
Phenobarbitol, USP, dms., 100-lbs., frt. alld	lb.	3.25	- —

Phenobarbital-Sodium (see sodium phenobarbital).

Phenol, 90-92% (cresol 8-10%), non-ret. dms., frt. alld. E of Rockies	lb.	.17¾	- —
non-ret. dms., l.c.l., same basis.	lb.	.18¾	- —
tanks, same basis	lb.	.15¼	- —



ORONITE®

ALKANE* 60
makes superior

HEAVY-DUTY DETERGENTS

Heavier molecular weight ALKANE 60 is second to none in quality and performance. It can provide you a heavy-duty detergent with:

Improved foam performance in soft warm water

Improved cleaning performance in soft warm water

Satisfactory performance with NO costly foam booster

Improved skin irritation characteristics

The quality of ALKANE 60 sulfonate is better because of better sulfonate color, lower unsulfonatable oil and improved odor.

For the complete story on ALKANE 60, contact the Oronite office nearest you.

CALIFORNIA CHEMICAL COMPANY
ORONITE DIVISION

EXECUTIVE OFFICES • 200 Bush Street, San Francisco 20, California
SALES OFFICES • New York, Boston, Wilmington, Chicago, Cincinnati, Cleveland, Houston, Tulsa, Los Angeles, San Francisco, Seattle
FOREIGN AFFILIATE • California Chemical International, Inc., San Francisco, Geneva, Panama, Sao Paulo

*California Chemical Company's trademark for its detergent intermediate.

6919

Phenol, 82-84% (cresol 16-18%) non-ret. dms., c.l., same basis, lb. .17½- —
non-ret dms., l.c.l., same basis, lb. .18½- —
tanks, same basis lb. .15½- —
39°C., or above, tar dist., non-ret. dms., c.l., same basis lb. .18 - —
Phenol, 39°C., or above, tar dist., non-ret dms. l.c.l., same basis, lb. .20 - —
tanks, same basis lb. .18 - —
USP. syn.. dms., c.l., t.l., frt. alld lb. .19½- —
dms., l.c.l., same basis lb. .21½- —
tanks, same basis lb. .17½- —
Phenolphthalein, USP or yellow, 250-lb dm., 2,000 lbs., frt. alld lb. 1.30 - —
250-lb dm., same basis lb 1.35 - —
Phenothiazine drench fib dms., t.l. dlvd lb. .46 - —
fib. dms., ton lots, dlvd lb. .49 - —
NF, fib. dms., t.l., dlvd lb. .45 - —
fib. dms., ton lots, dlvd lb. .48 - —
Phenyl acetate. dms. 100-lb. lots, works lb .50 - —
Phenyl salicylate (see Salol)
Phenylacetaldehyde, soln., 50% bots lb. 2.15 - 2.35
100%, bots. lb. 3.80 - 4.00
Phenylacetic acid, pure, cryst. cns lb. 1.25 1.75
di-Phenylalanine, dms., 1-kilo kilo.65.00 - —
l-Phenyl-3-carbethoxy pyrazolone-5, fib dms. 200-lb lots, dlvd E lb 3.45 - —
fib dms. smaller lots, dlvd E lb 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. .50 - —
dms., l.c.l., dlvd. E lb. .51½- —
tanks, dlvd. E .47½- —
m-Phenylenediamine, dms., c.l., t.l., frt. alld lb. 1.08 - —
l.c.l., l.t.l., same basis lb. 1.10 - —
o-Phenylenediamine, comi, fib. dms, 100 to 1,000 lbs., works. lb. 1.70 1.80
p-Phenylenediamine tech., dms, works lb 1.55 —
Phenylethanolamine. dms., c.l., works lb. 75½- —
dms., l.c.l., same basis lb. .76¼- —
Phenylethyl acetate bots. lb. 1.25 1.40
2-Phenylethyl alcohol, extra dms.lb 1.14 1.50
Standard, dms lb 1.10 1.60
b-Phenylethylamine dms., 20,000 lbs. or more, frt. alld lb 1.50 —
dms. smaller lots. frt alld lb 1.70 1.85
Phenylethylphenyl acetate, bots lb 4.00 4.25
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine 97%, 450-lb dms.lb 1.45 —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb lots, dlvd E 1.80 - —
fib dms. smaller lots, dlvd E lb 2.10 - —
o-Phenylphenol dms. l.c.l. works, lb .48 .50
p-Phenylphenol, bgs. c.l., works lb .38½- —
bgs. l.c.l., works lb .43 - —
Philippine copal gum, pale, chips, bgs lb. .23¾ 26
nubs, bgs. lb. .33¼ .37
seeds bgs. lb. .20 Nom.
sorts, bgs. lb. .20 .24
Phloroglucinol comi., fib dms., works lb 6.40 —
CP bots., works lb 17.75 - —
Tech. fib dms. works lb 10.45 —
Phloxin red toner (see Eosin red toner)
Phosgene, ref. cyls. works lb 15½- —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports, New Orleans l.t. 46.50 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68%, b.p.l., bulk, c.l., mines, short-ton. 4.989 - 5.398
68-70%, b.p.l., bulk, c.l., same basis short-ton. 5.849 5.858
70-72%, b.p.l., bulk, c.l., same basis short-ton. 6.429 6.438
Phosphate rock, Florida, land pebble, run of mine, washed, dried, unground, 74-75%, b.p.l., bulk, c.l., same basis, short ton. 7.329 - 7.338
76-77%, b.p.l., c.l., bulk, same basis short-ton 8.219 8.228
Above Florida prices are based on fuel oil at 2.52 per bbl and labor at $1.64.
Phosphoric acid, food grade, 75%, chys. c.l., works, E., frt. equald 100 lbs. 7.00 —
chys. l.c.l. same basis 100 lbs 7.25 7.75
tanks, t.w., works 100 lbs. 5.60 —
80% chys., c.l. frt equald 100 lbs. 7.85 —
chys. l.c.l., works 100 lbs 8.10 9.35
tanks, t.w., works 100 lbs 6.00 —
NF 85% chys., c.l., works.100 lbs 8.50 —
chys., l.c.l., works 100 lbs 8.75 9.00
tanks, t.w., works 100 lbs 6.65 —
Phosphorus, amorph., red, dms., t.l., works lb. .55 —
dms., smaller lots, works lb. .56 .57
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 .20½
dms. l.c.l. works, frt. equald lb. .21½- —
tanks, works, frt. equald, lb. .19 —
Phosphorus oxychloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works, frt equald lb. .12½- —
Phosphorus pentasulfide, powd., dms., c.l., works lb. .13½- —
dms. l.c.l. works lb. .14½- .15½
Solid, dms., c.l. works lb. .11½- —
dms. l.c.l. works lb. .12½- .13½
Phosphorus pentoxide. dms., c.l., works lb. .1375- .1475
dms. l.c.l., works lb. .1475- .1675
Phosphorus sesquisulfide, dms., cs., c.l., works lb. .38 —
dms. l.c.l. works lb. .39 .40
Phosphorus trichloride. dms., c.l., works lb. .14 —
dms., l.c.l., works lb. .15 —
tanks, works lb. .12½- —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .20 - —
bgs., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19½- —
Phthalimide 97-98%, dms., frt. alld lb. .65 - —
Phthalocyanine blue, full strength, bbls. dlvd E of Rockies, lb 2.90 - —
Resinated, bbls., same basis lb 2.75 - —
Water dispersable, bbls., same basis lb 1.52 —
Phthalocyanine blue prices 1c. higher W. of Rockies
Phthalocyanine green toner, bbls., works lb 3.35 - —
Resinated, bbls. lb 3.00 - —
Water dispersable, bbls. lb 1.71 - —
Phthalocyanine green prices 1c higher W of Rockies.

Phthalylsulfacetamide, fib. dms., 1,000-lb. lots or more lb. 5.00 - —
NF, fib. dms. lb. 5.20 - —
a-Picoline. dms. c.l., works, frt. equald lb. .46 - .48
dms., l.c.l., works, frt. equald lb. .46½- .49
tanks, same basis lb. .43 - .46
b-Picoline, 98% dms., t.l., works. lb. 1.05 - —
dms., l.c.l., same basis lb. 1.15 - —
tanks, same basis lb. .95 - —
b,g-Picoline, 5°C. dms., c.l., works. lb. .32½- —
dms., l.c.l., works lb. .33 - —
g-Picoline, dms., t.o.b., works lb. 1.60 - —
tanks, t.l. same basis lb. 1.50 - —
Picric acid, NF bbls. lb. .85 - —
Tech., bbls. lb. .44 - —
Pigment green B, kgs lb. 1.55 - —
Pilocarpine hydrochloride, USP, bots oz. 4.75 - 5.25
Pilocarpine nitrate USP bots., vials. oz. 4.65 - 5.15
Pimento, Jamaican, bgs. lb. .68½- —
Mexican, bgs lb. .56 - —
Pimento berry oil, NF, dms. lb. 3.75 9.25
Pimento leaf oil, crude, cns lb. 2.50 - 2.60
Pine oil, dest.-dist., dms., t.c.l. works lb. .15 - —
dms., t.c.l. ex whse New York. lb. .173 - —
Steam-dist. dms. ex whse., New York lb .185 - —
dms., dlvd lb .188 - —
Pineneedle oil, Siberian (see Abies Siberica oil).
Pink root, bls. lb. 2.25 - —
Piperazine anhyd. dms. c.l., frt. alld. E lb. 1.80 - —
dms., l.c.l., frt. alld. E lb. 1.85 - —
Piperazine citrate, 36% dms., 1,000 lbs or more frt alld lb 1.15 - —
Piperazine dihydrochloride 51%, dms. 1.000 lbs or more frt alld lb 1.23 - —
Piperazine hexahydrate 44% dms., 1,000 lbs or more, frt. alld lb .86 - —
dms. 200-900 lbs. frt alld lb 89 - —
Piperazine phosphate, 42% dms., 1.000 lbs or more, frt. alld lb 1.06 - —
Piperidine, dist., 98% min., 5 drs or more, l.c.l., l.t.l., f.o.b. works lb 2.65 - —
1-4 dms., same basis 2.70 - —
dms., c.l., t.l., frt. equald lb. 2.55 - —
Piperonyl butoxide dms. dlvd E.lb 4.50 5.05

PITCHES

Pitch quotations are listed individually For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Platinum metal, works oz.81.00 85.00
Pleurisy root, bls lb. .45 .50
Podophyllum resin, NF, dms lb.12.50 -15.50
Poke root, bls. lb. .19 .22
Polymyxin, bots., bulk., 50 billion units or more 1,000,000 units. .52 - —
bulk, bots., 25-50 billion units. 1,000,000 units. .54 - —
bulk, bots., 1-25 billion units. 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .42 - —
dms., 10,000-20,000-lb lots, works. lb. .44 - —
dms. smaller lots. works lb. .47 - .49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb lots, works lb. .42 - —
dms., 10,000-20,000-lb lots, works lb. .44 - —
dms., smaller lots. works lb. .47 - .49
Pontianak copal gum, chips, bgs. lb. .23½- .26
Nubs, bgs. lb. .38 - .44
Poppy seed, Argentine, bgs. lb No stocks.
Dutch, bgs. lb. .16 - —
Danish, bgs. lb. .15 - —
Polish, bgs. lb. .16 - —
Turkish, bgs. lb. .12 - —
Potash, caustic, liq. 45% basis dms., c.l., works 100 lbs 4.25 - —
dms., l.c.l., same basis 100 lbs. 5.25 - —
tanks, same basis 100 lbs 3.70 - —
reg., flake, 88-92% dms., c.l., same basis 100 lbs. 9.55 - —
Potash, reg., flake, 88-92%, dms., l.c.l., same basis 100 lbs.11.05 - —
solid, 88-92% dms., c.l., works 100 lbs 9.10 - —
dms. l.c.l., works 100 lbs.10.60 - —
Potassium acetate, NF, 200-lb. dm., f.o.b works. E lb. .31 - —
Potassium bicarbonate, USP, gran. dms lb. .22 - —
powd., dms lb. .24 - —
Potassium bichromate, gran., bgs., c.l., t.l., works lb. .18 - —
bgs., l.c.l., works lb. .18½- .19¾
Potassium bichromate in dms. ¾c. higher.
Potassium bitartrate, NF, gran., powd., 100-lb bgs., c.l., frt. equald lb. .37 - —
100-lb bgs., 5,000 lbs. 1 shipt., same basis lb. .38 - —
100-lb bgs. smaller lots, same basis lb. .40 - —
Potassium borohydride, powd., dms., works lb.16.00 22.00
Pelletized potassium borohydride $1.25 per lb. higher in 1,000-lb lots
Potassium bromate, 200-lb. dms., c.l., frt. alld lb. .49 - —
Potassium bromide. USP. gran., bbls., kgs lb. .39 .40
Potassium carbonate, dom., NF, gran. bbls., dms lb. .20 —
Dom. tech. powd., bbls., dms lb .21 .22
Dom. calcinated, bgs., c.l. works. 100 lbs. 8.50 - —
bgs., l.c.l., same basis 100 lbs. 9.55 - —
Dom. hydrated, 83-85%, bgs., c.l., works 100 lbs. 7.10 - —
bgs., l.c.l., works 100 lbs. 8.15 - —
Potassium chlorate, cryst, dms., c.l., works lb. .12¼- —
dms., l.c.l., works lb. .13½- .14½
Powd., dms., c.l., works lb. .12¾- —
dms. l.c.l. works lb. .14 .15
works lb. .12¼- —
Potassium chlorate, NF cryst., dms. 2,000 lbs or more, works lb. .16¾- —
NF, gran., 25-lb metal dms lb. .36 —
NF powd., dms., 2,000 lbs. or more, works lb. .17¼- —
Potassium chloride, indust., 99.9% KCL, bulk, c.l., works ton.29.00 - —
bgs., c.l., works ton.30.00 - —
99.3% KCL, bulk, c.l., works.ton.28.00 - —
bgs., c.l., works lb.33.00 - —
USP cryst. dms. lb .20 .22
USP gran., dms. lb. .21 .23
USP powd., dms. lb. .24 .26
Potassium chloride agricultural (see Potassium muriate).
Potassium chromate, tech., dms., works lb. .50 .51
Potassium citrate, NF, gran., 250-lb. dms., f.o.b. works E lb. .43 - —
powd. 250-lb dms. same basis, lb. .46 - —

Potassium cyanide, dms., 20,000-lb. lots or more, works lb. .43½- —
dms., 2,000-19,999-lb lots, works. lb. .43 —
dms., smaller lots, works lb .44 .44½
Potassium dichromate (see Potassium bichromate)
Potassium ferricyanide, dms., ton lots, works lb .50 - —
dms., smaller lots, works lb. .65 - —
Potassium ferrocyanide, dms., ton lots lb .24½- —
dms., smaller lots lb .29 - —
Potassium fluoborate fib dms., c.l., works lb .30 - —
fib dms., l.c.l., works lb .31 - —
Potassium fluoride, dms., works lb. .36 - .37
Potassium gluconate, 100-lb dm., f.o.b works E lb. 1.67 - —
Potassium guaiacol sulfonate, NF, dms lb 2.10 2.30
Potassium hydroxide, tech (see Potash caustic)
Potassium hydroxide, USP, pellets, 100-lb dms. 1 to 100-dm. lots lb .33½- .38
Potassium hypophosphite, NF fib. dms., 1,000-lb. lots lb. 1.38 - —
Potassium iodide, USP cryst., gran., dms., 500-lb., f.o.b. works, lb. 1.55 - —
Potassium manure salt, min. 20% K_2O, bulk, c.l., works, unit-ton. .17 - .1765
Potassium metabisulfite, gran. dms., lb. .16 - —
Powd., dms lb .27 - —
Potassium muriate, standard, bulk, c.l., works unit-ton. .37½- .39½
bagged 60% minimum K_2O, same basis ton.26.60- .27.80
Gran., bulk, c.l., works unit-ton. .38½- .40½
bagged, 60% minimum K_2O, same basis ton.28.10 -30.10
Inside prices apply to material contracted for prior to July 1, 1960.
Outside prices apply to material contracted for after that date but also for delivery during the current month
Potassium nitrate, NF cryst., bbls., 20-ton lots 100 lbs.17.00 —
bbls., smaller lots 100 lbs.18.00 -19.00
gran., bgs., 20-ton lots 100 lbs. 9.50 —
bgs., smaller lots 100 lbs.11.00 12.00
powd., bgs 20-ton lots 100 lbs.10.50 —
bgs. smaller lots 100 lbs.12.00 -13.00
Potassium oxalate, neutral, tech., fine gran., powd., 300-lb dm. f.o.b works E lb. .32 - —
Potassium pentaborate gran. dms., c.l. works ton.219.50 —
dms., ton lots, ex whse 100 lbs.17.48 - —
dms., smaller lots, ex whse 100 lbs.18.73 - —
Powdered potassium pentaborate $10 per ton higher
Potassium perchlorate, dms., c.l., works lb. .18½- —
dms. l.c.l., works lb. .19 .20
Potassium permanganate, coml., kgs. works lb. .25 .33
USP dms. works lb. .29 .35
Potassium persulfate, dms., c.l., works lb. .17½ —
dms. l.c.l., works lb. .18 .21
Potassium pyrophosphate, tetrabasic, dms., works lb .1475- 1575
Potassium prussiate red (see Potassium ferrocyanide)
Potassium prussiate yellow (see Potassium ferro-cyanide)
Potassium silicate, electrical grade, 30° Be. 1:2.0, dms., c.l., works 100 lbs. 6.50 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs 7.25 7.65
tanks, works 100 lbs. 6.15 - —
Potassium silicate, electrical grade, 40.5° Be. 1:2.1, dms., c.l., works 100 lbs. 5.95 - —
dms. l.c.l. 5 dm. lots or more, works 100 lbs. 6.70 - —
tanks, works 100 lbs 5.60 - —
Potassium silicate, glass grade, bgs., c.l., works 100 lbs.17.30 -18.00
bgs. l.c.l., works 100 lbs.17.80 —
Soln., 29° Be 1:2.5, dms., c.l., works 100 lbs. 4.95 - —
dms. l.c.l., 5-dm. lots or more, works 100 lbs. 5.70 - —
tanks, works 100 lbs 4.60 - —
Potassium silicofluoride, bgs., works lb. .09½- .10
Potassium silicofluoride in drums, 0.4c. per lb higher
Potassium stannate, dms., frt. alld, E lb. .780 - .853
Potassium sulfate, min 50% K_2O, agricultural, bulk, c.l., works unit-ton. .70½- .72½
Inside price applies to tonnage contracted for prior to July 1, 1960.
Outside price applies to tonnage contracted for after that date but also for delivery during the current month.
Potassium sulfate, NF VII, cryst., dms., lb. .31 .33
NF VII, gran., 400-lb. dm lb. .18 - —
NF VII, powd., 400-lb. dm lb. .17 - —
Potassium sulfocyanate, NF cryst., (see Potassium thiocyanate)
Potassium thiocyanate, NF, cryst., dms., works lb. .96 .98
Tech., dms. works lb. .77 .79
Potassium titanate, ctns., c.l., works. lb. .16¼- —
ctns. 5-ton lots, works lb. .16½- —
ctns., 1-ton lots or less, works lb. .16¾- —
Potassium-magnesium sulfate, pans 40% K_2SO_4 and 18% MgO, bulk, works, base price. ton.13.45 - —
bulk, works, July forward ton.14.00 - —
Potassium-sodium tartrate, NF gran. or powd., 250-lb dms., c.l., works E lb..42½- —
250-lb. dms., 5,000-lb. lots, same basis lb. .43 - —
250-lb dms., same basis lb. .43½- —
Potassium-titanium fluoride, fib. dms., works lb. .39 .40
Potassium-zirconium flouride, fib. dms., c.l., works lb. .50 - —
fib dms., l.c.l. works lb. .52½ .55
Pregnenolone, bots gram. No prices.
Pregnenolone acetate, bots gram. No prices.
Procaine hydrochloride USP antibiotic grade, dms., 2,000-lb lots, frt alld lb. 2.25 - —
USP, ampule grade, dms., 1,000-lb. lots, frt. alld lb 2.40 - —
dms., 500 lbs lb 2.45 - —
dms., 100 lbs lb. 2.50 - —
Progesterone, USP bots gram No prices.
Pregnenolone acetate bots gram No prices.
Propenyl guaethol dms lb.24.30 -27.00
b-Propriolactone, tech., dms., c.l., f.o.b. works lb. .47½- —
dms., l.c.l., t.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —
Propionic acid, syn., pure, dms., c.l., dlvd lb. .23¼- —
dms., l.c.l., dlvd. lb. .24¾- —
tanks, dlvd. lb. .20¾- —
n-Propyl acetate, dms., c.l., dlvd. lb. .14¾- —
dms., l.c.l., dlvd lb. .16¼- —
tanks, dlvd. lb. .12¼- —

n-Propyl alcohol, dms., c.l., dlvd lb. .14 - .15
dms., l.c.l., dlvd lb. .15½- .16½
tanks, dlvd lb. .11½- .12¼
n-Propyl gallate, dms., 100 to 2,000-lb lots, works lb. 3.90 4.40
n-Propyl-p-hydroxbenzoate, USP, dms lb. 2.30 2.40
Propyl thiouracil bots., 50 kilo lots or more kilo.55.00 —
bots., smaller lots kilo.55.10 -55.30
n-Propylamine dms., c.l., dlvd lb 1.24 —
dms., l.c.l. same basis lb. 1.255 —
n-Propylene dichloride consumers', dms. c.l. dlvd. E lb. .0845- —
dms., l.c.l., same basis lb .0995- —
tanks same basis lb .07 —
Propylene dichloride prices 1c West 1c. higher, same basis
Propylene glycol, indust., dms., c.l., dlvd. E lb. .15 —
dms., l.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12½- —
USP dms. c.l., dlvd E lb. .17 —
dms. l.c.l., same basis lb. .18¾- —
tanks, same basis lb. .14½- —
Propylene glycol methyl ether, dms., c.l., dlvd lb. .20 —
dms., l.c.l., same basis lb. .21 —
tanks, same basis lb. .18½- —
Propylene oxide dms., c.l., dlvd E. lb. .17 —
dms., l.c.l., dlvd E lb. .18½- —
tanks, dlvd E lb. .14½- —
Psyllium seed, black, bgs. lb. .38 - .40
Blonde bgs lb. .18 .20
Husks, bgs lb. .42 .45
Pumice, dom., grd. coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝- .04¼
bgs., smaller lots lb. .03⅞- —
Imp. Italian silk-screen, coarse, bgs. ton lots lb .06½- —
fine, bgs. ton lots lb .04 —
sun dried, coarse, bgs ton.60.00 —
fine, bgs. ton.60.00 -70.00
Pumpkin seed, bgs lb. .25 .26
Pyrethrins, syn (see Allethrin).
Pyrethrum flowers, fine grd. 0.9% pyrethrins, bgs., ton, works lb. .50 - —
Powd., 1.3% pyrethrins, bgs., ton works lb. .71 - —
Pyrethrum liquid, 20-1 basis (2 grams pyrethrins per 100cc odorless base) dms. works, gal. 9.60 9.80
Pyrethrum liquid 100-1 basis (10 grams pyrethrine per 100cc odorless base), dms., works gal.45.90 -46.90
Pyrethrum oleoresin, dewaxed, 20%, dms., works lb.11.00 -11.35
purif, 20%, dms. works lb.11.00 11.35
Pyridine, denat., dms c.l. works and frt. equald gal. 2.77 - —
dms., l.c.l., same basis gal. 2.80 - —
Retd., 2° non-ret dms., c.l., same basis lb. .75½- —
dms., l.c.l., same basis lb. .76 - .76½
tanks, same basis lb. .71 - —
Pyridoxine hydrochloride, USP 500-gram bots., dms., f.o.b. works kilo.95.00 -100.00
Pyrites, Canadian, 48-50% S, mines, long-ton. 4.50 - 5.00
Pyrocatechol (see Catechol)
Pyrogallic acid, NF (see Pyrogallol).
Pyrogallic acid, tech, bbls., 100-lbs., f.o.b., works lb 3.50 - —
Pyrogallol, NF 100-lb dms. lb 3.50 - —
Pyroxylin, USP bots lb 9.50 - —

Q

Quassia chips lb. .10 - —
Quicksilver (see Mercury metal)
Quince seed, bgs lb. 1.75 - —
Quinidine sulfate, USP, 1,000-oz. dm oz. .74½- —
Quinine, NF, 1,000-oz. dm. oz. .3750- —
Quinine bisulfate USP, 1,000-oz. dm. oz. .28 - —
Quinine hydrochloride, 1,000-oz dm. oz. .3650- —
Quinine sulfate USP, 1,000-oz dm. oz. .3150- —
Quinoline dms., c.l., frt. equald.lb. .50¾- —
dms., l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

R

R salt paste, dms., frt. alld., 100% basis lb. .88 - —
Powd., frt. alld, 100% basis lb. 1.08 - —
Rapeseed oil, dms. lb. .15¾- .16
tanks lb. .14 - .14¼
Rare earth oxalate, NF, 45-50%, bgs. works lb. 1.15 - —
Rauwolfia serpentina root, powd., bbls., dms lb. 1.00 - 1.20
Red carmine, No. 40 (see Carmine).
Red oil (see Oleic acid)

RED PIGMENTS

Red pigment quotations are listed individually For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).
Red toner, Lake C, alizanine, bbls., works lb. 1.30 - —
Reserpine, cryst. bots gram. 1.25 - —
Resorcinol, tech. grade, bgs., c.l., works, frt. equald lb. 77½- —
bgs., l.c.l., same basis lb. 78½- —
Resorcinol in dms., 1c. per lb. more.
USP, powd., dms., works lb. 2.95 - —
Resorcinol monoacetate, NF, dms. lb. 2.50 - —
Rhatany root, bgs lb. .14 - .16
Rhodamine red toner, molybdated, PMA, kgs., works lb. 6.00 - —
Tungstated, PTMA works, kgs lb 6.60 - —
Rhodinol, 5-lb cans lb.42.00 -51.00
Synthetic lb.14.00 -16.00
Rhubarb root, India, whole, bgs lb. .25 - —
powd. bgs lb. .35 - —
Riboflavin, USP fib dms., kilo or more dlvd kilo.36.00 - —
Riboflavin, 5-phosphate-sodium, fib dms. kilo or more, dlvd, kilo.104.50 - —
Rice bran oil, clarified, dms., t.c.l. lb. .14 - .14½
tanks, dlvd E lb. .12 Nom.
Ricinoleic acid (see Castor oil acids split).
Rochelle salt (see Potassium-sodium tartrate)
Roofing pitch (see Coaltar pitch roofing)
Rose oil, nat., Bulgarian, bots lb.1,152.00- —
Turkish, bots lb.560.00 -750.00
Rosemary oil, Spanish, NF, cns., dms lb. .97 1.40
Spanish tech. cns. dms lb. .50 1.20
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works, unit-lb. .10½- —
Resin, 25-45% fib dms., works, unit-lb. .10½- —
Rottenstone, bgs. 5-ton lots, ex-whse lb. .03¾- —
bgs., ton lots, same basis lb. .04¼- —

Rubber solvent, petroleum, 115°F-245°F b.r., tankcars, New Jersey and New York..gal. .19 - —
Group 2 ..... gal. .13875 - —
Houston, Texas ..... gal. .155 - —
Rue oil, bots ..... lb. 2.75 - 3.00
Rutin, NF, dms., 10 kilo lots, kilo. 11.00 - —
fib, dms., 5 kilo lots ..... kilo. 11.50 - —
fib, dms., 1 kilo ..... kilo. 13.00 - —
Ryania, 100%, powd., bgs., c.l., works lb. .22 - —
bgs., l.c.l., same basis lb. .24 - —

S

S acid, bbls., works ..... lb. 3.25 - —
Sabadilla seed activated, ground with lime, bbls lb. .42 - .44
Saccharin, calcium, fib dms., 1,000-lb lots, works lb. 2.50 - —
USP, gran., soluble, dms., 1,000-lb. lots lb 1.40 - —
dms., smaller lots lb. 1.50 - —
USP, powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.45 - —
dms, smaller lots lb. 1.55 - —
Saccharin USP, powd., insoluble, dms., 1,000-lb. lots lb. 1.43 - —
dms., smaller lots lb. 1.53 - —
Safflower oil, dms., New York .. lb. .1795- .1820
tanks, Atl. Coast ..... .1795- .1620
Saffron, Mancha Superior, tins lb. 19.50 - —
Safrol, dms ..... lb 65 - —
Sage, Dalmatian, bgs ..... lb 40 - —
Greek, cns ..... lb 15 - —
Italian, cns ..... lb 18 - —
Sage oil, clary, bots ..... lb. 12.00 -15.00
Dalmatian, cns ..... lb 2.85 3.25
Spanish, cns ..... lb 1.25 1.75
Sal soda (see Soda sal).
Salicylaldehyde, dms, c.l., t.l., f.o.b., plant frt. equald lb 1.23 - —
dms, l.c.l. same basis lb 1.25 - —
Salicylamide, 100-lb dms lb. 1.05 - —
Salicylic acid tech., fib, dms., c.l., t.l., divd lb. .40½- —
fib dms, l.c.l., divd lb. .44¾- —
Salicylic acid, USP, cryst, 200-lb. fib. dms., 1,000 lbs. or more lb. .51¾- —
200-lb fib dms., less than 1,000 lbs lb. .54¾- —
100-lb fib dms, 1,000 lbs or more lb. .53¾- —
100-lb. fib dms., less than 1,000 lbs lb. .56¾- —
USP, powd, 100-lb fib dms., 1,000 lbs. or more lb. .58¾- —
100-lb fib dms., less than 1,000 lbs lb. .61¾- —
Salol, NF, gran., bbls., kgs lb 1.20 —
Powdered salol 25c per lb higher.
Salt, rock, paper bgs., c.l. 100 lbs t.09 - —
Salt, table vacuum, common, fine, paper bgs., c.l 100 lbs. 1.34 - —
Saltcake, dom. bulk, works, 100% Na_2SO_4 basis ton. 28.00 - —
Saltpeter (see Potassium nitrate)
Sandalwood E Indian, chips, bgs., lb. .55 - .66
powd, fib dms lb 75 - .76
Sandalwood oil, cns ..... lb. 21.00 - —
Sarcosine, tech, tanks, f.o.b., works, frt equald lb 1.03 —
lb No stocks.
Sassafras oil, artif., dms ..... lb. 45 —
Nat., dom., dms ..... lb 1.40 - —
Savory oil, cns lb 4.75 - —
Schaeffer's salt paste, dms., frt. alld. 100% basis lb. .85 - —
Powd. bgs. frt alld. 100% basis. lb. .95 - —
Scopolamine hydrobromide, USP, bots oz. 13.00 - —
Sebacic acid, CP bgs., c.l. works. lb. .69½- —
bgs., l.c.l., works lb. 71½- —
Purified, bgs. c.l., works lb. .65½- —
bgs., l.c.l., works lb. .67½- —
Seidlitz mixture fib dms., 5,000-lb. lots lb. .30½- —
fib dms., smaller lots lb. .31 - .32
Selenium, powd., 99½%, dms., dlvd. lb. 7.00 - —
Senega root, bls ..... lb. 2.95 - 3.00
Senna leaves, Alexandria, whole and half, bls lb. .20 - .22
siftings ..... lb. .16 - —
Tinnevelly, No. 1, bls ..... lb. .22 - —
No. 2, bls ..... lb. .18 - —
No. 3, bls ..... lb. .14 - —
pods, bls ..... lb. .28 - —
powd., bbls., bxs ..... lb. .17 - —
Serpentaria root, bls ..... lb. 6.50 - —
Sesame oil, USP, dms., t.c.l ..... lb. .37 - .38
Sesame seed, Colombian, bgs ... lb. .15½- —
Lebanese, hulled, bgs ... lb. 19 - —
Nicaraguan, hulled, bgs ..... lb. .25 - —
nat., bgs ..... lb. .14 - —
Salvadorian, Nat. bgs lb .16 - —
Shellac, bleached, bonedry bgs., 1,500-lb. lots lb. .47 - —
dms., t.c.l. works lb .22 - .20½
bbls., 1,500-lb. lots ..... lb. .46 - —
kgs., 1,500-lb. lots ..... lb. .47 - —
Bonedry shellacs prices for less than 1,500-lb lots 1c. per lb. higher for all packages.
Shellac, bleached, refd. bgs., 1,500-lb. lots lb. .56 - —
bbls., 1,500-lb lots lb. .57 - —
kgs., 1,500-lb lots lb. .58 - —
Shellac, orange, lemon No. 1, bgs., 10-bg. lots lb. .37 - .39
lemon No. 2, bgs., 10-bg. lots, lb. .34 .37
superfine, bgs., 10-bg. lots lb. .32 .34
Shellac in 1 to 10-bg. lots 1c. per lb more.
Shingle stain oil, tar distillate, dms., c.l., works gal. .37 - —
dms., l.c.l., works gal. .48 - —
tanks, works gal. .25 - —
Sienna, pigment, burnt, paper bgs., c.l., works lb. .06½- .18½
paper bgs., l.c.l., works lb. .06¾- .17¾
Raw, paper bgs., c.l., works lb. .06¾- .16¾
paper bgs., l.c.l., works lb. .07 - .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton. 25.00 —
bgs. l.c.l. works, ex whse ton. 45.00 - 55.00
Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 20.00 - —
bgs., l.c.l., works ton. 25.00 - —
99½%, 140 mesh, bgs., c.l., works ton. 15.00 - —
bgs., l.c.l. works ton. 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .20 - —
tanks, works lb. .15 - —
Silver bullion, ingots, cs Troy oz. .91⅛- —
Silver cyanide, bots, 1,000-oz lots, oz. .94¾- —
bots., 500-oz. lots oz. .95¼- —
bots., 100-oz lots oz. .96¼- —
Silver nitrate, CP, cryst., bots., 1,000 to 4,000 oz., f.o.b. works oz. .67¼- —
bots. 250-500 oz., same basis. oz. 67¾- —
USP granular silver nitrate 4c. per oz. higher
Silver proteinate, mild, USP, 16-oz. bots oz. 1.46 - —
Snakeroot oil, Canada, cns lb. 40.00 - 43.00
Soapbark, crushed, bls ..... lb .30 .35
Powd., bls ..... lb. .35 .40
Whole, bls lb .20 .25
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 —
paper bgs., l.c.l., stock pts., 100 lbs. 3.00 4.72
bulk, c.l., works ..... 100 lbs 1.60 —
Soda ash, light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
paper bgs., l.c.l., stock pts. 100 lbs. 3.93 4.78
bulk, c.l., works 100 lbs. 1.55 —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 5.20 - —
liq. 50%, sellers' tanks works, dry basis 100 lbs. 2.90 - —
50%, rayon type, sellers' tanks, works, dry basis 100 lbs. 2.90 3.00
Soda, caustic, liq, 73%, sellers' tanks works, dry basis, 100 lbs. 3.00 —
liq., 73% rayon type, sellers' tanks, works, dry basis lb. 3.00 3.10
solid, 76% dms. c.l., works, 100 lbs. 4.80 - —
Soda, sal, conc., bgs. c.l., works, 100 lbs. 2.50 - —
bgs. smaller lots, works 100 lbs. 2.80 - —
Sodium acetate, anhyd., bgs., c.l., dlvd. E lb. .14½- —
bgs., l.c.l., same basis .... lb. .16½- —
NF, 60%, gran., dms., c.l., works, lb. .15½- —
dms., l.c.l., works .... lb. .17½- —
Sodium alginate, NF, white powd., dom., 300 lbs. or more lb. 1.02 - —
Sodium p-aminosalicylate, dms., 100-lb. lots or more, frt. adjusted lb. 1.90 - —
Sodium antimoniate, bgs., c.l., dlvd. E lb. .27½- —
bgs., l.c.l., dlvd. E ..... lb. .29 - —
Sodium arsenate, 60% arsenic pentoxide, 200 lb. dm., less than ton lots, f.o.b. works lb. .24 - —
ton lots or more, same basis. lb. .23½- —
Sodium arsenite, 94% soluble pink powder, 75% arsenious oxide, dealers, 100-lb. dms., ton lots or more, f.o.b., works lb. .18½- —
1,600-1,900 dms., same basis .... lb. .19 - —
100-500 dms., same basis ..... lb. .20 - —
Sodium ascorbate, dms., 100-kilos., dms., f.o.b. works kilo. 6.80 - —
less than 100-kilos ..... kilo. 7.05 - —
Sodium benzoate, tech., dms., c.l., t.l., frt. alld lb. .35 - —
dms., l.c.l., same basis ..... lb. .39 - —
USP, dms., c.l., t.l., frt. alld lb. .38 - —
dms., ton lots, same basis .... lb. .43 - —
dms., 1,000-lb. lots, same basis, lb. .43 - —
Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 - —
bgs., l.c.l., works 100 lbs. 3.85 - —
USP, powd., bgs., c.l., works, 100 lbs. 2.55 - —
bgs., l.c.l., works .... 100 lbs. 3.45 - —
Sodium bichromate, gran., ogs., c.l., t.l., works lb. .13 - —
bgs., l.c.l., works ..... lb. .13½- .14¼
Sodium bichromate in dms. ¾c. per lb. higher
Sodium bifluoride, bbls., c.l., works, frt. equald lb. .19½- —
bbls., l.c.l., same basis lb. .2025- —
Sodium bisulfate, bulk, c.l., works, 100 lbs. 2.00 —
dms, c.l., frt. equald ..... 100 lbs. 3.00 3.60
dms., l.c.l., frt equald ..... 100 lbs. 3.50 4.10
Sodium bisulfite, anhyd., bgs., c.l., works 100 lbs 5.00 —
bgs., l.c.l., works 100 lbs 5.45 —
Soln., 35° bbls. c.l., works 100 lbs 1.70 —
bbls. l.c.l., works 100 lbs 2.20 —
Sodium borate (see Borax)
Sodium borohydride, powd., dms., c.l., works lb. 19.00 —
dms., l.c.l., works lb 33.00 40.00
Sodium borohydride, stabilized water soln., 12% NaBH, 100% basis, dms. works lb 15.00 —
Pelletized sodium borohydride $1 per lb. higher in 1,000-lb lots.
Sodium bromide, USP, gran., dms., works lb. .40 - —
Sodium carbonate, cryst, monohydrated (see Soda, sal).
Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs 3.10 - —
bgs., l.c.l., works 100 lbs. 3.50 - —
Sodium carboxymethyl cellulose (see CMC).
Sodium chlorate, cryst., 350-lb. dms., c.l., works lb. .09 —
dms., l.c.l., works lb 09½- .10¼
Sodium chlorate in 100-lb. dms., only, ¼c. per lb. higher.
Sodium chloride, tech. (see Salt).
Sodium chloride, USP, gran., bgs. lb. .03 - —
Sodium chlorite, tech., dms., c.l., works lb. .58 - —
dms. 20-dm. lots or more, works lb. .68 —
dms., smaller lots, works lb. .70 - .73

HARDWORKING JEFFERSON CHEMICALS

PROPYLENE GLYCOL

Industrial and U.S.P. Grades

PROPYLENE GLYCOL

SPECIFICATIONS

INDUSTRIAL GRADE:

Specific gravity, 20/20°C	1.0375 min. 1.0390 max.
Acidity as acetic, wt.%	0.005 max.
Water, wt.%	0.2 max.
Color, Pt-Co scale	10 max.
Ash, wt.%	0.005 max.
Boiling range, ASTM, °C	185-189

U.S.P. GRADE:
(Same as specifications for Industrial Grade with the following exceptions:)

Boiling range, ASTM, °C	186-189
Acidity as acetic, wt. %	0.003 max.
Chlorides as Cl, wt. %	0.0001 max.
Sulfate	None
Arsenic as As_2O_3, ppm	1 max.

SELECT PROPERTIES

Boiling point, 760 mm	187.4°C.
Flash point (open cup)	225°F.
Melting point	<–60°C.
Molecular weight	79.09
Specific gravity, 20/20°C	1.0381
Viscosity, 20°C	60 centipoise
Weight, 20°C	8.62 lbs./gal.

Select Properties same as for Industrial Grade Propylene Glycol

DIPROPYLENE GLYCOL

SPECIFICATIONS

Specific gravity, 20/20°C	1.020 min. 1.025 max.
Acidity as acetic, wt.%	0.01 max.
Water, wt.%	0.1 max.
Color, Pt-Co scale	15 max.
Boiling range, ASTM, °C	222-238

SELECT PROPERTIES

Boiling point, 760mm	231.8°C.
Flash point (open cup)	280°F.
Viscosity, 20°C	107 centipoise
Weight, 20°C	8.5 lbs./gal.
Molecular weight	134.17
Specific gravity, 20/20°C	1.0252
Melting point	<–60°C.

SHIPPING AND HANDLING

Propylene glycols are available from Jefferson in 4,000-, 6,000-, 8,000-, 10,000-gal. tank cars, tank wagons in most areas, and 55-gal. resin-lined drums.

The handling and storage of these glycols is in most cases a straighforward operation. They present no hazard of explosion, polymerization, fire, health, or other industrial risk. They are hygroscopic and have extremely low vapor pressures. There are, however, certain uses requiring extra protection against contamination during handling and storage . . . explained in detail in our technical literature.

TECHNICAL INFORMATION

Request these new, up-to-date Technical Brochures on Industrial Grade and U.S.P. Grade Propylene Glycols for detailed chemical and physical data . . . Jefferson Chemical Company, Inc., 1121 Walker Avenue, P. O. Box 303, Houston 1, Texas.

HOUSTON • NEW YORK • CHICAGO • CLEVELAND
CHARLOTTE • LOS ANGELES • SAN FRANCISCO

JEFFERSON CHEMICALS

Sodium chloroacetate, tech., dms., c.l., works lb. .27 - —
dms., l.c.l., works lb. .28 - —

Sodium chromate, anhyd., fib, dms., c.l., t.l., works lb. 14¾- —
fib dms., l.c.l., works lb. .15¼- .16½

Sodium chromate tetrahydrate, bgs. c.l., t.l., works lb. .1015- —
bgs., l.c.l. lb. .1065- .1190

Sodium citrate anhyd., 200-lb. dm., f.o.b. works E lb. .62 - —
NF VIII. gran, bgs., c.l., same basis lb. .26 - —
USP XIV gran., bgs., c.l., same basis lb. .29 - —
Sodium citrate, USP, powd, prices ½c. higher.

Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 - —
dms., smaller lots, works lb. .90 - 1.10

Sodium cyanide, briquettes or gran., 97 percent min., dms., works, 20,000-lb. lots lb. .176 - —
dms., same basis, 5,000 to 19,999-lb lots lb. .188 - —
dms., same basis, 1,000 to 4,900-lb. lots lb. .198 - —

Sodium cyclamate, 100-lb dm., f.o.b. works lb. 1.93 - —

Sodium diacetate, anhyd., 39-41% acetic acid, dms., c.l., works lb. .18 - —
250-lb. dms., l.c.l., works lb. 19¾- —

Tech., 33-35% acetic acid, dms., l.c.l., works lb. .15 - —
250-lb. dms., l.c.l., works lb. .15¾- —

Sodium dimethyl dithiocarbamate, 40% soln., dms., c.l., t.l., frt. alld., 100% basis lb. .42 - —
dms., l.c.l., l.t.l., same basis lb. .47 - .53
tanks, same basis lb. .38 - —

Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs, smaller lots lb. .14¾- —

Sodium fluoride, white, 97%, fib, dms., c.l., works, frt. equald lb. .1390- —
fib. dms., l.c.l., works, frt. equald lb. .1465- —

Sodium formate, bgs., c.l., works, 100 lbs. 7.05 - —
bgs., l.c.l., ex whse 100 lbs. 8.65 - —

Sodium gentisate, 100-lb. fib. dms. lb. 5.50 - —

Sodium gluconate, refd., 250-lb. dm., f.o.b. works E lb. .84 - —
Tech., bgs., c.l., t.l., same basis lb. .34 - —

Sodium hydride, 50% soln. in oil, dms., works lb. 1.25 - 3.50
25% soln. in oil, dms., 50 lbs. or less, f.o.b. shipping point, lb. 2.20 - —
dms., 50-99 lbs., same oasis lb. 1.77 - —
dms., 100-999 lbs., same basis lb. 1.20 - —
dms., 1,000 lbs or more, same basis lb .95 —

Sodium hydrosulfide (see Sodium sulfhydrate).

Sodium hydrosulfite, dms. c.l., frt. alld lb. 23½- —
dms., l.c.l., frt. alld. lb. 25¾- —

Sodium hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots, lb. .23½- .28

Sodium hydroxide, tech. (see Soda, caustic).

Sodium hypophosphite, NF, dms., 1,000-lb. lots lb. .89 - —

Sodium hyposulfite (see Sodium thiosulfate).

Sodium iodide, USP, 300-lb. dms., f.o.b. works lb. 2.13 - —

Sodium lauryl sulfate, dms., c.l., dlvd lb. .20½- —
dms., l.t.l., dlvd. lb. .21½- —
tanks, dlvd. lb. .19½- —

Sodium lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 6.50
l.c.l., bgs., works 100 lbs. 4.40 7.00

Sodium metabisulfite (see Sodium bisulfite).

Sodium metaborate octahydrate, gran., bgs., c.l. works ton.210.00 - —
bgs., ton lots, ex whse 100 lbs. 8.30 - —
bgs., smaller lots, ex whse 100 lbs. 9.61 -11.61

Tetrahydrate, bgs., c.l., works ton.210.00 —
bgs., ton lots, ex whse 100 lbs.14.83 - —
bgs., smaller lots, ex whse 100 lbs.16.08 -16.08

Sodium, metallic, bricks, c.l., works, lb. .21 - —
Fused, 18,000-lb. lots or more, works lb. .19½- —
tanks, works lb. .17 - —

Sodium metalinate, bbls., frt. alld. lb. .62 - —

Sodium metaphosphate, bgs., c.l., f.o.b. shipping pt 100 lbs.11.10 - —
bgs., l.c.l., same basis 100 lbs.11.85 - —
dms., c.l., same basis 100 lbs.11.70 - —
dms., l.c.l., same basis 100 lbs.12.45 - —

Sodium metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 - —
bgs., 6,000-19,900 lb. lots, works, 100 lbs. 6.05 - —
dms., c.l., works 100 lbs. 6.20 - —
dms., l.c.l., works 100 lbs. 6.55 - —

Sodium metasilicate pentahydrate, bgs., c.l., works 100 lbs. 4.40 - —
bgs., l.c.l., works 100 lbs. 4.80 - 6.75
dms., l.c.l., works 100 lbs. 4.95 - —
dms., l.c.l., works 100 lbs. 5.30 - 7.25

Sodium molybdate, anhyd., dms., works, frt. equald lb. .92 - .99
Cryst., dms., works, frt. alld lb. .74 - .76

Sodium monoglutamate (see Monosodium glutamate).

Sodium monohydrate (see Sodium carbonate monohydrated).

Sodium naphthionate, bbls. lb. .72 - —

Sodium nitrate, dom., crude, bgs., c.l., works ton.48.00 - —
bulk, c.l., works ton.44.00 - —
Imp., crude, 100-lb. bgs., c.l., Atl., Gulf, Pac., whse ton.48.00 - —
bulk, c.l., same basis ton.44.00 - —

Sodium nitrite, USP, bbls., c.l., works, frt equald 100 lbs 9.00 - —
bbls., l.c.l., same basis 100 lbs.11.00 - —

Sodium orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 - —
dms., l.c.l., works 100 lbs. 7.05 7.65
Hydrated, flake, bbls., c.l., works 100 lbs. 5.65 —
bbls., l.c.l., works 100 lbs. 7.60 7.90

Sodium oxalate, 88%, bgs., works 100 lbs.12.35 - —
99% bgs., works 100 lbs.15.40 - —

Sodium para-aminobenzoate (see Sodium p-aminobenzoate)

Sodium para aminosalicylate (see Sodium p-aminosalicylate)

Sodium pentachlorophenate, briquets, dms., c.l., works, frt equald lb. .26 —
dms., l.c.l. same basis lb. 27½- .34
Pellets, dms., c.l. same basis lb. .26 —
dms., c.l. same basis lb. 27½- .34
Powd., dms., c.l. same basis lb. .25 —
dms. l.c.l., same basis lb. 26½- .33

Sodium pentabarbital, USP, dms., 100 lbs. or more lb. 6.00 —

Sodium perborate NF, tech., bgs., c.l., works lb. .18½- —
bgs. l.c.l. works lb. .19 .21

Sodium peroxide, dms., c.l., t.l., dlvd E of Miss lb. .21½- —
dms., l.c.l., same basis lb. .22 .22½

Sodium phenobarbital, USP, 100-lb. dms lb. 3.75 —

Sodium phenosulfonate, USP, IX, gran., dms lb. .52 .53
NF powd. dms lb. .55 .56

Sodium phosphate, dibasic, anhyd., bgs c.l. frt equald 100 lbs. 8.10 - —
bgs., l.c.l., same basis 100 lbs. 8.50 - 9.55

Sodium phosphate, dibasic, cryst., bgs., c.l., t.l., frt equald 100 lbs. 4.75 - —
bgs., l.c.l., frt. equald 100 lbs. 5.15 - 5.90

Dibasic duohydrate, bgs., c.l. frt equald 100 lbs. 7.75 - —
bgs., l.c.l., same basis 100 lbs. 8.25 - —

Monobasic anhyd, bgs, c.l. frt equald 100 lbs. 9.15 - —
bgs., l.c.l., same basis 100 lbs. 9.55 -10.15

Tribasic anhyd. bgs c.l. frt equald 100 lbs. 9.15 - —
bgs. l.c.l. frt equald 100 lbs. 9.60 -10.20

Sodium phosphate in dms. 60c to 80c. higher than bgs

Sodium phosphate, USP, dried, powd., bgs., dms., works lb. .19 .20¼

Sodium picramate, tech., paste, dms. f.o.b works, frt. equald lb. .90 —

Sodium propionate, any quantity, dms. dlvd E of Rockies, lb 34½- —

Prices W of Rockies 3c per lb more

Sodium prussiate, yellow (see Sodium ferrocyanide)

Sodium pyrophosphate, acid, bgs., c.l. works frt equald 100 lbs.11.25 - —
bgs., l.c.l., same basis 100 lbs.12.00 -12.50

Sodium pyrophosphate, ferric, dms., c.l. t.l. works lb .36 —
dms. l.c.l. works lb .37 .39

Tetrabasic, anhyd., bgs., c.l., works frt equald 100 lbs. 7.55 - —
bgs., l.c.l., same basis 100 lbs. 8.30 - —

Sodium salicylate USP dms., 1,000-lbs or more lb. 78½- —
dms. less than 1,000 lbs. dms lb. .81½- —

Sodium sesquicarbonate, bgs., c.l., works 100 lbs. 2.35 —

Sodium sesquicarbonate, bgs., l.c.l., dlvd zone 1 100 lbs. 4.10 4.35
dlvd zone 2 100 lbs 4.35 4.60
dlvd zone 3 100 lbs 4.75 4.90
dlvd zone 4 100 lbs 5.35 5.60

Sales zones are (1) Atl. states E. of Miss., R and N of south bound of Ky and Va., Ala., La. and Miss south of 31°; Tex E. of 100°; S of 31° Fla., also Me., N H and Vt in which there are special county zones; Davenport, Ia., and St Louis; (2) Ark E. of 98° Ga.; Iowa (except Davenport) Minn., Mo. (except St Louis) Neb E. of 98° N C., S C., Tenn and Tex N of 31° and E. of 100° (except Wichita Falls); also Ala., La and Miss. No of 31°; (3) Ark W of 98° Kan., Neb W. of 98° N D., Okla., S. D., Tex., W of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N M., Utah, Wyo and El Paso, Tex

Sodium sesquisilicate anhyd., bgs., c.l. t.l works 100 lbs 5.70 —
dms. c.l. t.l. works 100 lbs 6.20 —

Sodium sesquisilicate hydrated, bgs. c.l works 100 lbs 5.00 —
bgs. 6,000-19,900 lb lots, works 100 lbs 5.35 —
dms. c.l., works 100 lbs 5.50 —
dms. 6,000-19,900 lb lots works. 100 lbs 5.85 —

Sodium silicate, liq., 40° Be. 1:3.2, turbid dms. c.l. works. 100 lbs 1.65 —
dms., l.c.l. works 100 lbs 1.90 2.40
tanks, works 100 lbs 1.20 —
47° Be 1:2.9 turbid, dms., c.l., works 100 lbs 2.25 —
dms., l.c.l., works 100 lbs 2.60 3.45
tanks, works 100 lbs 1.90 —
52° Be 1:2.4 turbid, dms., c.l., works 100 lbs 2.65 —
dms., l.c.l., works 100 lbs 3.00 3.50
tanks, works 100 lbs 2.30 —
Solid, 1:3.2, bgs. works ton.67 50 —

Sodium silicofluoride, bgs., c.l., works lb. .065 —
bgs., l.c.l., works lb 725 —

Sodium silicofluoride in dms. 0.4c per lb. higher

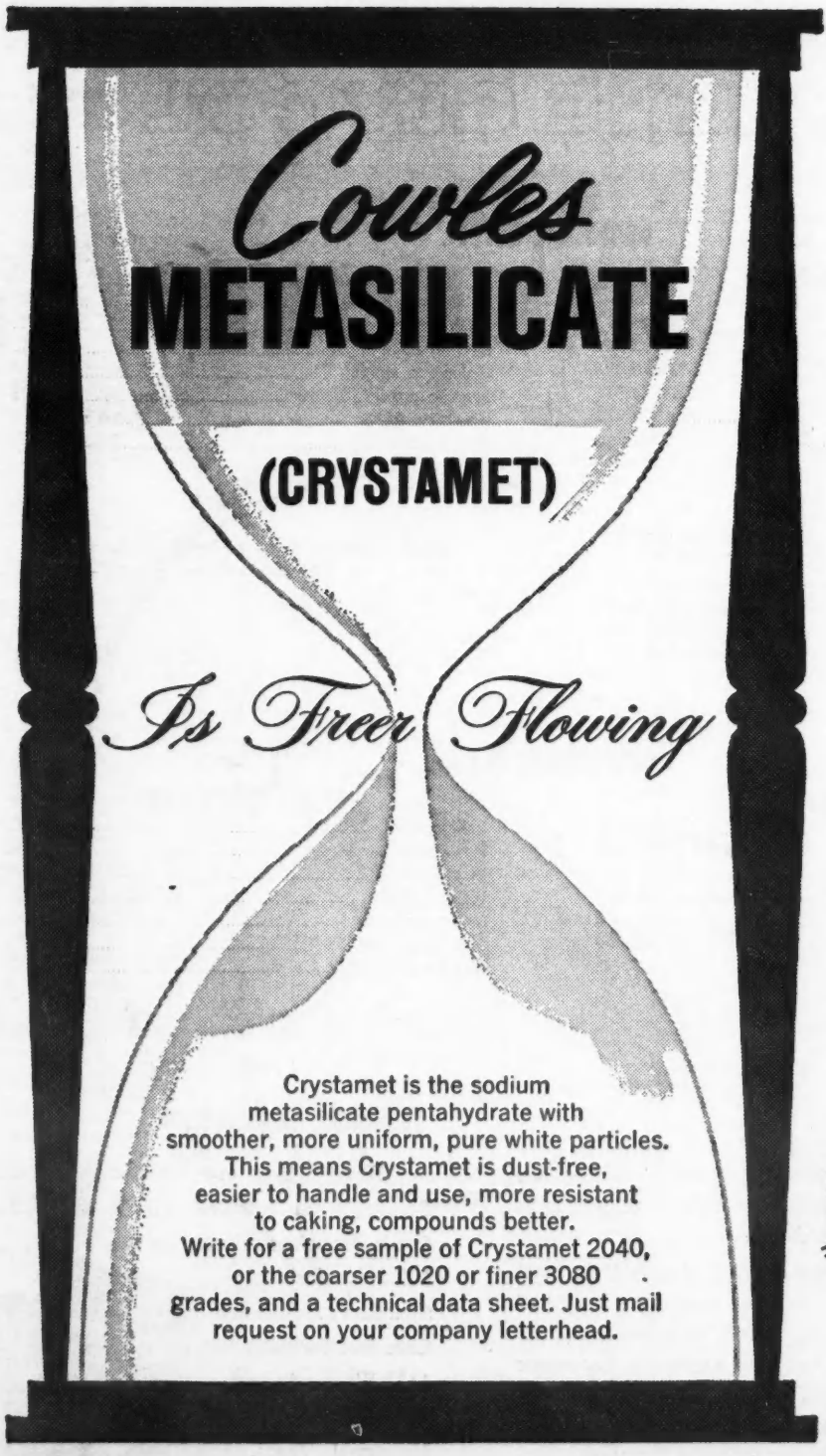
Sodium stannate, dms., works, frt. alld., E lb. .638 - .697

Sodium sulfa drugs (see Sulfa name)

Sodium sulfanilate, bbls. works lb. .22 —

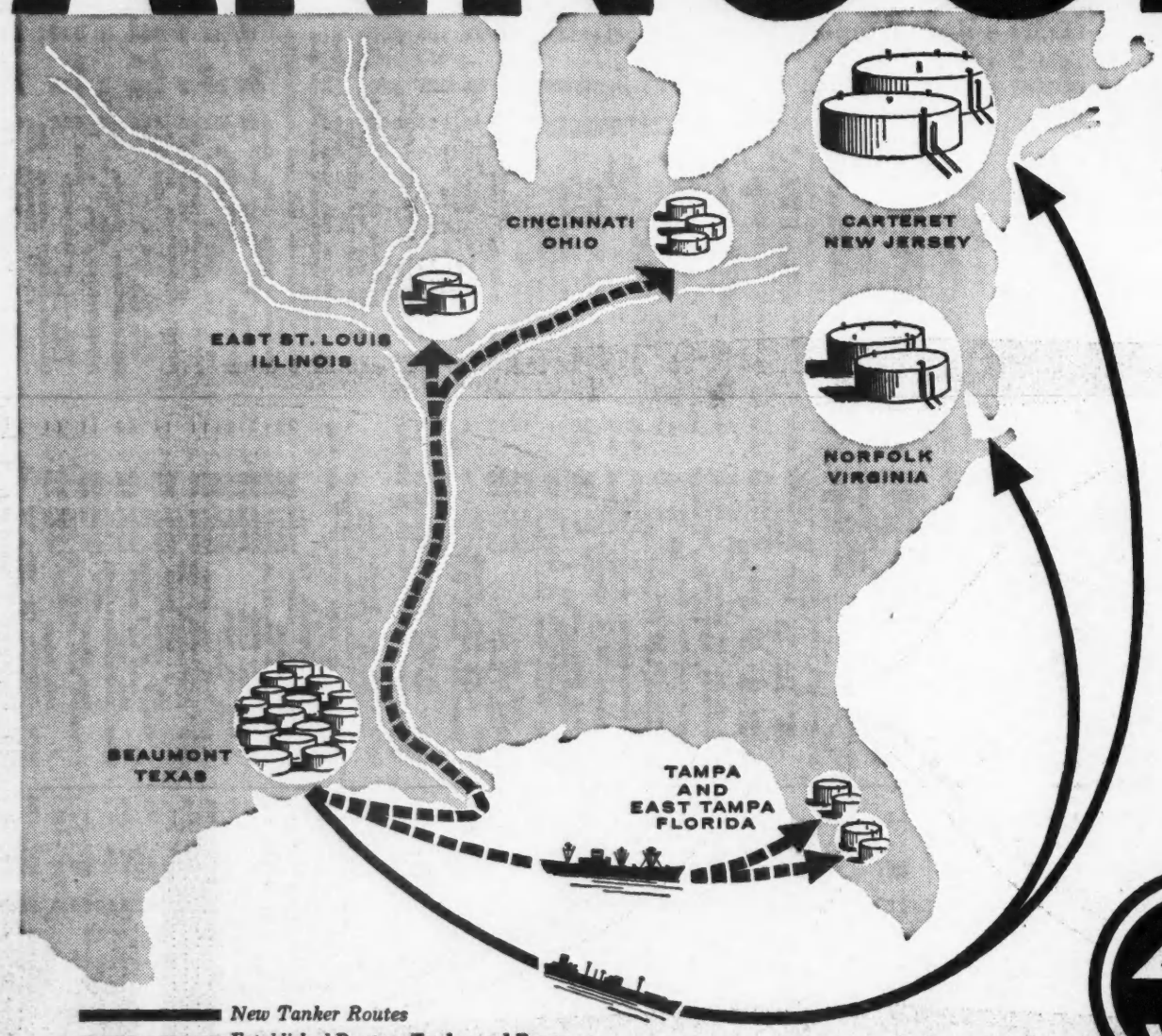
Sodium sulfate, NF VII, dried, powd., dms lb .22½- —
Tech., anhyd. bgs c.l. dlvd E. ton.56.00 - —

Sodium sulfate, tech., detergent, rayon grade, bgs., c.l., works ton.38.00 - —
bulk, c.l., works ton.34.00 —
USP, cryst., fib dms. lb. .17½ .18


Cowles
METASILICATE
(CRYSTAMET)
Is Freer Flowing
Crystamet is the sodium metasilicate pentahydrate with smoother, more uniform, pure white particles. This means Crystamet is dust-free, easier to handle and use, more resistant to caking, compounds better. Write for a free sample of Crystamet 2040, or the coarser 1020 or finer 3080 grades, and a technical data sheet. Just mail request on your company letterhead.

Cowles CHEMICAL COMPANY
7018 Euclid Avenue · Cleveland 3, Ohio

ANNOUNCING



TEXAS GULF SULPHUR COMPANY

inaugurates

Coastal Tanker Delivery of Molten Sulphur with the

S. S. MARINE SULPHUR QUEEN

This 15,000 ton tanker has begun service out of our new large main storage and loading terminal at Beaumont, Texas where modern loading facilities will enable it to tie up, take on a full cargo direct from mines or from terminal storage and be on its way in 14 hours.

THE SULPHUR QUEEN will supply our new distribution terminals on the Atlantic coast: Carteret (26,000 tons storage) and Norfolk (20,000 tons). Each of these terminals is equipped to distribute TGS Molten Sulphur by tank car or tank truck over a wide industrial area.

Thus is TGS continuing its program of an ever-broadening service to industry.

TEXAS GULF SULPHUR COMPANY
75 East 45th Street, New York 17, N. Y.
811 Rusk Avenue, Houston 2, Texas

Sulphur Producing Units: NEWGULF, TEXAS • SPINDLETOP, TEXAS • MOSS BLUFF, TEXAS
FANNETT, TEXAS • WORLAND, WYOMING • OKOTOKS, ALBERTA, CANADA

Sodium sulfhydrate, flake 70-72%, dms. c.l. works, frt. equald lb. 07½- —
dms., t.e.i. same basis lb. 08¼- —
Liq. 40-44% tanks works, 100% basis ton 130.00 —
Sodium sulfide flake, dms., c.l., works E., frt equald lb 06 - —
dms. t.e.i. same basis lb 07 - —
Fused bbls. c.l works E., frt equald lb 05½ - —
bbls. t.e.i. same basis lb 06½ - —
Sodium sulfite anhyd., powd., bgs. c.l., works 100 lbs 7.55 - —
bgs. t.e.i. same basis 100 lbs 7.95 - —
Anhyd. tech bgs c.l. works 100 lbs 3.50 —
bgs., t.l. same basis 100 lbs 4.00 —
Sodium sulfocyanide CP (see Sodium thiocyanate)
Sodium tetraborate (see Borax)
Sodium tetrasulfide liq. 40%, dms., c.l., works frt equald lb 04½ —
dms., t.e.i same basis lb 05½ —
Sodium thiocyanate CP dms lb 55 .65
Tech. anhyd. dms., 1 ton lots or more, works lb. .367 - —
dms. less than ton lots, works lb. .387 - —
Sodium thiosulfate NF cryst. bbls. lb 13½ —
Tech. anhyd 100-lb bgs. c.l., t.l., frt equald 100 lbs 4.75
100-lb bgs t.e.i. t.l., frt equald 100 lbs 8.15 - —
Sodium thiosulfate tech., annyd., photo grade, 64-lb bgs., c.l. t.l. frt equald lb 0775- —
64-lb bgs t.e.i. t.l.i. frt equald lb 0815- —
Tech. pentanydrate photo grade, 100-lb bgs., c.l. t.l., frt equald 100 lbs 4.95 - —
Sodium thiosulfate tech. pentanydrate photo grade, 100-lb. bgs. t.e.i. t.l.i., frt equald 100 lbs 5.20 —
Sodium titanate ctns. c.l. works lb 14¼ —
ctns. 5-ton lots works lb 14½ —
ctns. 1-ton lots or less works lb 14¾ —
Sodium trichloroacetate, 90%, 100-lb dms. c.l. frt alld E lb .35 —
50-lb dms. c.l., frt alld. E lb .35½- —
10-lb cns., c.l. frt alld E lb 42 —
Prices on Sodium trichloroacetate W of the Rockies are 1¾c per pound higher
Sodium tripolyphosphate bgs., c.l. works, frt. equald 100 lbs. 7.90 - —
bgs., t.e.i., same basis 100 lbs. 8.65 - —
Sodium trisilicate powd., 1:3.2, bgs. c.l., works 100 lbs 8.95 —
bgs., t.e.i. works 100 lbs 9.70 -13.13
dms. c.l., works 100 lbs 9.45 —
dms. t.e.i. works 100 lbs. 10.20 -10.60
Sodium tungstate tech. kgs. dlvd E lb 1.32 —
Sodium-ammonium phosphate, pudr. cryst dms. works lb .52 —
Sodium carboxymethyl cellulose (see CMC).
Sodium cinchophen (see Cinchophen sodium)
Sodium formaldehyde sulfoxylate dms., t.l., dlvd lb 22½- —
dms., t.t.l., same basis lb. .23 - —
Sodium-aluminum sulfate fib dms. 1,000-lb lots or more works lb 28 —
fib dms. smaller lots, same basis lb 30 - —
Solvent naphtha, coaltar, high-flash, tanks, frt equald gal .30 .35½
Solvent naphtha, petroleum, straight aromatic 310° 360 F b.r., 14 16°C m.a.p. tankcars, New Jersey and New York gal. 29 - —
Houston, Texas gal 29 - —
355° 420°F b.r., 17° 18°C. m.a.p., tankcars, New Jersey and New York. gal 30 - —
Houston, Texas gal 30 - —
Solvent naphtha, petroleum, partial aromatic, 211° 265°F b.r., 31°C m.a.p. tankcars, New Jersey and New York gal 235 - —
286°-340°F b.r., 22°C m.a.p., tankcars New Jersey and New York gal 275 - —
Solvent naphtha, 319°-380°F b.r., 27°C. m.a.p., tankcars, New Jersey and New York gal. .27 - —
322 393°F b.r., 28°C m.a.p., tankcars, New Jersey and New York gal 28 —
Sorbitan monostearate fib dms. 20,000-lb lots, works lb. .33½ —
fib dms. 10,000 to 20,000-lb lots, works lb .35½ —
fib dms. smaller lots, works lb .38½ - 40½
Sorbitan tristearate fib dms. 20,000-lb lots works lb 34 —
fib dms. 10,000 to 20,000-lb lots, works lb 36 —
fib dms., smaller lots, works lb 39 - 41
Sorbitol NF reg. 70% aqueous dms., c.l., works lb 18 —
dms., t.e.i works lb 19 —
tanks works lb .16¼ —
cryst. resin grade, pellets, dms., c.l. works lb 23 —
dms. 1 to 5-ton lots works lb 25 .26
powd., dms., c.l., works lb. .38½ —
dms. 10,000 to 20,000 lb. lots, works lb 40½ —
Sorbitol, scln., comyl., aqueous, dms., c.l. works lb 26 —
dms., t.e.i., works lb. .27 —
tanks, works lb. .23¼ - —
Soya protein, chemically isolated, old process, bgs., c.l., works. lb 23 —
bgs., t.e.i., works lb. .23¼ .23½
Chemically isolated, new process, bgs. c.l. works lb 20 —
bgs., t.e.i. works lb 20¼ - 29½
Soybean meal 44% bulk unrestricted, Decatur ton. 57.00 - —
Soybean oil crude tanks Decatur lb. .11¾- —
Foots, soapstock acid 95% tanks. lb. .05¾ Nom.
Refd., alkali, dms. lb. .15¾- .15½
tanks lb. .13¾- —
Clarified, dms. lb. .15¾- .15¼
tanks lb. .13¾- —
Salad, dms. lb. .15¾- .15½
tanks lb. .13¾- —
Soybean oil acids, dbl dist., dms lb. .16 .18½
tanks lb. .13½ —
S. D., dms. lb. .14¾- .17¼
tanks lb .12¼ —
Sparteine sulfate, cns. 100 oz or more oz. 80 —
Spearmint leaves, dom. bls lb 75 —
Spearmint oil, NF, dms lb. 7.00 - 8.00
Sperm oil, bleached winter, 45°, dms lb. .1675- .1775
tanks lb. .1475- —
Nat., winter 45°, dms lb. .1575- .1675
tanks lb. .1375- —

Spermaceti wax, blocks, cs. lb. .32 - .39
Cakes, cs. lb. .33 - .34
Spruce oil, cns., dms. lb 2.10 3.55
Squill, white, bls. lb. .16 .18
Powd., bbls., bxs. lb. .17 - .20
St. John's bread, edible, bls. lb. .17 —
Stannic chloride anhyd., dms., works lb. .808 .830
Stannic oxide, dms., dlvd lb. 1.07½- 1.08½
Stannous chloride anhyd dms., works lb. 1.007 1.256
Hydrous, cryst., dms., works lb. .86½- .87½
Stannous sulfate, dms., works lb. 1.056 1.076
Star root (see Helonias root)
Stargrass root (see Aletris root.)
Stavesacre seed, bgs lb. .60 61
Stearic acid, dbl., pressed, bgs lb. .15¾- .18¼
Single-pressed, bgs. lb. .15¼- .17¾
Triple-pressed, bgs. lb. .17½- .20
Stoddard solvent, petroleum tanks, east coast, New Jersey, New York gal. .18 —
tanks, Houston gal. 1475- —
tanks group 3 gal 12875 —
Stramonium leaves, bgs. lb. .16½- .18
Streptomycin sulfate bulk, gram .03 .032
Strontium bromide, NF, cryst., gran., 150-lb dm. frt. equald lb. 1.00 - —
Strontium carbonate, pure dms. 5 ton lots or more, works lb .35 - —
dms. 1-ton lots, works lb .37 - —
Tech., dms., works lb .19 - —
Strontium chromate fib dms. dlvd lb .48 - —
Strontium iodide jars, 25-lb lots lb 3.57 - —
Strontium nitrate bgs. c.l. works 100 lbs. 11.00 - —
bgs. t.e.i. works 100 lbs. 12.00 - —
Strontium salicylate NF dms lb 1.88 - —
Strontium sulfate, air floated, 90% 325 mesh bgs. works ton. 56.70 -66.15
Strophanthin G (see Quabain, USP)
Strophanthin K bots. oz. 25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs lb. 2.50 - 3.00
Styrax gum USP cs lb 4.50 5.50
Styrene monomer, polymer grade, 99.6% dms. c.l. frt alld. lb. .17 —
dms., t.e.i., same basis lb. .19 —
tanks, same basis lb. 14½ —
Tech., 99.2%, dms., c.l., frt. alld. lb. .1509- —
dms., t.e.i., same basis lb. .1709- —
tanks lb. .1259- —
Above prices are escalated for each calendar quarter on the basis of cost of benzene and petroleum refining labor
Styrolyl acetate, bots lb. 1.03 1.10
Succinic acid purif., cryst., dms., t.l., frt alld lb 62 —
dms., t.t.i., same basis lb 63 .75
Succinic anhydride dms. c.l., t.l., dlvd lb. .51 - —
dms., t.e.i., same basis lb. .52 - —
Sucrose, refd. white ngs. refy k. .0955- —
Sucrose acetate, isobutyrate, 90%, dms., t.l., dlvd lb .33½ - —
dms., t.t.i., same basis lb 35 - —
tanks, same basis lb 31 - —
100%, t.l., dms., dlvd. lb. .35½- —
t.t.i. dms., same basis lb. 37 - —
Sucrose octa-acetate, denaturing grade 100-200-lb. lots, bgs. t.e.i. works lb 1.00 —
Sugar (see Sucrose)
Sugar cane wax, dom. refd. slabs, 80-lb ctns., works lb .60 .65
80-lb ctns., spot lb. 65 75
Sulfabenzamide, dms kilo 8.80 9.90
Sulfabenzamide-sodium, dms kilo 9.00 10.10
Sulfacetamide USP, fib dms kilo 6.61 6.83
Sulfacetamide-sodium USP, fib. dms kilo 8.15 9.25
Sulfadiazine, USP, microcrystals, dms kilo. 23.35 24.45
USP, powd. dms kilo. 22.60 23.70
Sulfadiazine-sodium USP dms kilo. 24.80 25.90
Sulfaguanidine NF X dms kilo 5.50 6.60
Sulfamerazine-sodium USP, powd., dms kilo. 24.80 25.90
Sulfamethazine USP XV microcrystals, dms kilo. 19.65 20.75
USP XV powd. dms kilo. 18.75 19.85
Sulfamic acid, cryst. dms., c.l., t.l., works 100 lbs. 16.00 —
dms. t.e.i., t.t.i., works 100 lbs. 17.50 18.50
Gran., dms., c.l. t.l. works 100 lbs. 14.75 —
dms. t.e.i. t.t.i. works 100 lbs 16.25 -17.25
Sulfanilamide, NF reg. 1,000 lb., frt equald lb 1.50 —
NF fib dm. frt equald lb 1.55 - —
Sulfanilamide quinoxaline, veterinary dms kilo. 16.28 - —
Sulfanilic acid tech. dms c.l., frt alld lb .21 —
dms., t.e.i., frt alld lb. .23 —
Sulfapyridine, USP XV powd., bots., tins kilo. 15.45 -16.55
Sulfapyridine-sodium, monohydrate, dms kilo. 16.55 -17.65
Sulfathiazole, NF X, microcrystals, dms kilo. 6.25 6.90
NF X, powd. dms. kilo. 5.50 6.15
Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35 —
Sulfur, comi. flour, bgs., mines, 100 lbs 2.35 —
bbls., mines 100 lbs 3.30 - —
lump, bgs., mines 100 lbs 2.25 - —
bbls., mines 100 lbs 2.80 - —
Sulfur crude, dom. bright, bulk, f.o.b. cars, mines long-ton. 23.50 - —
export, f.o.b vessels, Gulf ports, long-ton. 25.00 - —
US and Canada f.o.b vessels Gulf ports long-ton. 25.00 —
Domestic dark sulfur prices are $1 per long-ton lower
Sulfur, crude, imp. Mexican, bulk, filtered, f.o.b., vessel, Coatzacoalcos long-ton. 24.00 —
Mexican dark sulfur price is $1 per long-ton lower.
Sulfur, refd., flowers, NF, bgs., mines 100 lbs. 5.65 - —
bbls., mines 100 lbs. 7.00 - —
flour, light, bgs., mines 100 lbs. 5.25 - —
bbls., mines 100 lbs. 6.25 - —
lump, bgs., mines 100 lbs. 4.95 - —
rolls, bgs., mines 100 lbs. 5.50 - —
bbls., mines 100 lbs. 6.25 - —
salt block, bgs., mines 100 lbs. 4.65 - —
virgin block, bbls., mines 100 lbs. 4.70 - —
Sulfur rubbermakers, comi., reg., bgs., mines 100 lbs 2.45 - —
bbls. mines 100 lbs 3.70 - —
98-100%, passing through 325 mesh, bgs. mines 100 lbs. 2.55 - —
bbls mines 100 lbs 3.80 - —
Sulfur, rubbermakers, refd., bgs., mines 100 lbs. 4.90 - —
bbls., mines 100 lbs 6.05 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.75 - —
bbls., mines 100 lbs 4.00 - —
Sulfur dichloride, ret. dms., c.l., works, frt. equald lb. .05¼- —
ret. dms., t.e.i., same basis lb. .06¼- —
tanks, same basis lb. .04½- —
Sulfur dioxide, liq., comi., cyls., works, frt. equald lb. .10 - .12
multi-unit cars, works lb. .0535- —
tanks, works lb. .045 - —
Sulfur dioxide, refrigeration, cyls., dlvd lb. .32 - —
Sulfur monochloride, 55-gal. non-ret. dms., c.l., frt. equald lb. .05¾- —
dms., t.e.i., same basis lb. .06¼- —
tanks, same basis lb. .04½- —
Sulfuric acid, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
cbys., t.e.i., works 100 lbs. 2.30 - —
tanks, works ton. 18.60 - —
Sulfuric acid, 66° Be, cbys., c.l., works 100 lbs. 2.25 - —
cbys., t.e.i., works 100 lbs 2.55 - 3.35
tanks, works ton. 22.35 - —
98% tanks, works ton. 23.50 - —
99% tanks, works ton. 23.70 - —
Sulfuric acid 100%, tanks, works. ton. 23.95 - —
CP, NF consumers cbys., c.l., frt. equald lb. .12¾- —
Sulfuric acid, CP, NF consumers', cbys. t.e.i., same basis. lb .14¼- .14¾
5-pt. bots. extra, cs., c.l., works, frt alld lb. .16¼- —
5-pt bots. extra, cs., t.e.i., same basis lb .17¾- .18¼
Sulfuric acid fuming (oleum), 20% tanks, works ton. 25.00 - —
40% tanks, works ton. 29.00 - —
65% tanks works ton. 39.50 - —
Superphosphate run-of-pile under 22% a.p.a., pulv., bulk, c.l., Baltimore unit-ton .90 - .93
bulk c.l. Carteret, N. J. unit-ton .90 - .93
Superphosphate triple, 48% or more a.p.a., pulv. bulk c.l. East Tampa, Fla. unit-ton 1.00 - —
bulk f.o.b vessel at Fla unit-ton 1.05 - —
Sweet birch oil, USP, northern cns lb 4.00 9.50
USP, southern, cns lb. 2.00 3.05

T

2,4,5-T. dms., c.l., works, frt. equald, lb 1.18 - —
dms., t.e.i., same basis lb 1.25 - —
2,4,5-T. isopropyl ester, dms., c.l., works, frt equald lb. 1.24 - —
dms., t.e.i. works lb 1.29 - —
Talc, dom., fibrous, grd., bgs., c.l., works, New York ton. 28.00 —
bgs. t.e.i., works ton. 31.00 -36.00
fibrous, 99.5% 325 mesh, bgs., c.l., works, New York ton. 31.00 - —
bgs. t.e.i. works ton. 34.00 - —
Talc, dom., fibrous, 99.95% 400 mesh, micronized bgs., c.l works ton. 38.00 - —
625 mesh micronized, bgs., c.l works ton. 80.00 —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton. 34.00 -39.50
Vermont, off-color grd., bgs., c.l., works ton. 19.40 —
bgs. t.e.i. works ton. 37.00 —
Imp. Canadian, grd. bgs., c.l., mines ton. 20.00 -35.00
tanks, works lb. .02½- .03½
Tall oil, crude, tanks, works lb. .03 - .03¼
Dist., depending on grade, dms., c.l., works lb. .07 - .09¼
tanks, works lb. .05¼- .08
Tall oil, refd., depending upon grade, dms., c.l., works lb. .07¾- .08¼
tanks, works lb. .05¾- .07½
Tall oil acids, dms., c.l., works lb. .07 .10
dms., t.e.i., works lb. .07½- .10½
tanks, works lb. .05 - .07½
Tallow, edible, tanks, dlvd lb. .09½ Nom.
Inedible, fancy, bleachable, tanks, lb. .06½- —
fancy, guaranteed, bulk f.o.b steamer lb. .07 Nom.
dms., f.a.s. lb. .08 Nom.
tanks, dlvd. lb. .06¾- —
No. 1 dlvd lb. .05¾- .05¾
Prime, tanks, dlvd. lb. .06¼- —
Special tanks, dlvd. .06 - —
Sulfonated 25%, bbls., t.e.i lb. .08½ .08¾
50% bbls. t.e.i lb. 10½ .11
Tallow acids, dist., dms. lb. .12¼- .14¾
tanks lb. .09¾- —
Hydrogenated, dms. lb. .14½- .17
Tallow oil, acidless, dms., c.l. lb. .13½ —
dms., t.e.i lb. .14½- .15½
Tangerine oil Florida, dms lb 4.75 —
Tankage, animal, feeding, 9-11% ammonia, New York bulk unit-ton 4.75 5.00
Tannic acid NF, fluffy, bbls., 1,000-lb lots lb 2.05 —
bbls., smaller lots lb. 2.06 2.07
NF, powd. bbls., 1,000-lb. lots lb 1.95 —
bbls. smaller lots lb 1.96 1.99
Tech., dms lb 1.05 —
Tansy oil, dms lb 6.60 8.00
Tar acid oil, 15-18%, dms., c.l., gal. .55½- —
dms., t.e.i., same basis gal. .56½- —
tanks, same basis gal. .43½- —
Tar acid oil 25-28% dms., c.l., same frt equald gal. .53½- —
basis gal. .60 - —
dms., t.e.i. same basis gal. .62 - —
tanks same basis gal. .50 - —
50-53% dms. c.l., same basis gal. .75 - —
dms., t.e.i., same basis gal. .77 - —
tanks same basis gal. .65 —
Tar, coal (see Coaltar).
Tartar emetic (see Antimony potassium tartrate).
Tartaric acid NF 100-lb bgs., c.l., frt. equald lb. .41 —
bgs. 10,000 lbs. 1 shipt., same basis lb. .43 - —
bgs. smaller lots, same basis lb. .47 - —
Terpine hydrate, NF, cryst., powd., 100-lb fib. dms lb. .70 - —
Terpineol, extra, dms lb. .50 - .60
Prime, dms lb .40 .50
Terpinyl acetate, extra, cns., dms. lb. .64 .75
Prime, dms lb .53 .56
Terpinyl propionate, dms lb. 1.65 1.70
Testosterone USP bots gram No prices.
Testosterone propionate, USP bots. gram No prices.
Tetrachloroethane, dms, works lb. 14½ —
Tetrasodium pyrophosphate (see Sodium pyrophosphate)
Tetrachloroethylene, tech. (see Perchloroethylene)
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works lb. .20½- —
dms. t.e.i., works lb. .22 - .23½
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .60 —
dms. t.e.i. dlvd. E lb. .61½- —
Tetraethyl pyrophosphate, 40%, cns., dms., frt. equald lb. .75 —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .53½- —
dms., t.e.i., dlvd. E lb. .55 - —
tanks, dlvd. E lb. .51 - —
Tetraethylthiuram disulfide, tech., dms., frt. alld lb. 1.04 —
Tetrahydrofuran, dms. c.l., t.l., works lb. .36½- —
dms., t.e.i., or t.t.i., works lb. .37 - —
tanks, works lb. .35 —
Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn. lb. .31½- —
dms., t.e.i., Memphis, Tenn lb. .32½- —
dms., c.l., t.l., Newark, N.J lb. .33½- —
Tetrahydrofurfuryl alcohol, dms., t.e.i., Newark, N. J. lb. .34½- —
tanks, dlvd E. of Denver lb. .31 - —
tanks, dlvd. W. of Denver lb. .33 - —
Tetrahydrophthalic anhydride, dms., c.l., t.l., frt. alld. E lb. .39 - —
t.e.i., t.t.i., same basis lb. .41 - —
Tetrapotassium phosphate (see potassium phosphate).
Thallium metal, dlvd. lb. 7.50 -10.00
Thallium sulfate, 99%, bots., dlvd. lb. 8.00 -10.00
Theobromine, NF, fib dms., 100-lbs., f.o.b., works lb. 4.10 - 4.15
Theobromine and sodium acetate, USP, fib. dms., 500-lbs. works lb. 6.45 - —
Theobromine, sodio-salicylate, NF, fib dms., 500-lbs., works. lb. 3.80 - —
Theophyline, USP, anhyd., 100-lb. dms., frt alld lb. 3.65 - —
Thiamine hydrochloride, USP, fib. dms., frt alld kilo. 36.00 - —
USP, ampule grade, fib., dms., frt alld kilo. 38.00 - —
Thiamine mononitrate, USP, fib. dms., frt alld kilo. 36.00 —
Thiocarbanilide, dms., ton lots lb. .74 - —
dms., less ton lots lb. .76 - —
Thiodiphenylamine (see Phenothiazine).
Thioflavin green toner, brilliant, molybdated PMA, kgs., works lb 5.20 - —
Tungstated PTMA, kgs. works lb 6.20 - —
Thioglycolic acid, refd., 55 gal dms., ton lots, 100% basis lb 1.15 —
Thiosalicylic acid, 80% dms., 1,000-lb., lots, works lb 4.00 - —
Thiourea, tech. bgs. t.l. frt alld. lb. .30 - —
bgs., ton lots, same basis lb. .32 - —
bgs., less than ton lots, same basis lb. .33 - —
Thorium nitrate, purif., fib dms., 100-lb lots or more works lb 3.50 —
dl-Threonine, dms., 100 kilos, works kilo. 121.00 —
Thyme leaves, French, triple sifted extra, bgs lb. .27 —
Spanish, extra, bgs lb. .12 - —
triple sifted, bgs lb .25 —
Spanish, bgs. lb .09 —
Thyme oil, NF, red, cns., dms. lb 2.00 —
NF, white, cns lb 2.20 —
Tech., white cns. lb .40 1.85
Thymol, fib dms. 25-lbs., f.o.b works lb 2.45 —
Thymol iodide NF, dms. 100-lbs f.o.b. works lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhyd.)
Tin crystals (see Stannous chloride, hydrous)
Tin metal (Straits) lb. 1.01 - —
Tin oxide (see Stannic oxide)
Tin sulfate (see Stannous sulfate).
Tin tetrachloride anhyd (see Stannic chloride, anhyd.)
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd lb. .25½- —
bgs., t.e.i., dlvd. lb .26½ —
reg., bgs., c.l., dlvd. lb .25½ —
bgs. t.e.i. dlvd. lb .26½ —
metallurgical, nat., bgs., c.l., f.o.b Jacksonville Fla ton. 180.00 —
bgs. 5-ton lots, Niagara Falls, N. Y ton. 205.00 —
bgs. ton lots same basis ton. 215.00 —
Milled metallurgical titanium dioxide $7.50 per ton higher
Titanium dioxide, rutile, nonchalking, bgs., c.l., dlvd E lb. .27½- —
bgs. t.e.i. dlvd E lb. .28½- —
Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd lb. .09⅜- —
bgs., t.e.i., works lb. .09⅞- —
50% Ti O_2, high-tinting, dms. c.l., lb. .14⅜- —
dms. t.e.i. lb. .14⅞- —
Titanium hydride, powd., dms., works lb. 8.10 9.00
Titanium tetrachloride, tech., dms., c.l., works lb .26 —
dms., t.e.i., works lb .27½- .29
tanks, works lb .20 —
Tobias acid, dms., c.l., t.l. lb. .81 - —
dms. t.e.i. lb. .84 - —
d-a-Tocopherols, NF, mixer, conc. pure basis bots kilo. 67.00 —
d-a-Tocopheryl acetate, NF, conc., pure basis, bots kilo. 122.00 —
d-a-Tocopheryl acid succinate, cryst., bots kilo. 109.00 —
dl-a-Tocopherol bots. kilo. 99.00 —
dl-a-Tocopheryl acetate, bots kilo. 90.00 —
25% dry. powd., bots kilo. 22.50 -24.00
33% dry. powd. bots. kilo. 30.00 31.50
o-Tolidine base dry. kgs., 100% basis lb 1.55 —
Paste, kgs., 100% basis lb 1.50 —

TOLUOL
Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine hydrochloride paste, kgs., 100% basis lb. 1.50 —
Tolu balsam, cns lb 3.50 - 3.65
Toluene, coaltar, indust., or nitration, tanks, dlvd. E. of Rockies gal. .25½- —
Toluene, petroleum indust., tanks, f.o.b., frt. equald gal. .25 - —
p-Toluenesulfonamide, powd., dms., t.l., works lb. .60 - —
dms., t.t.i., same basis lb. .63 - —
Toluenesulfonic acid, 55-gal. dms., t.l., frt. alld lb .16 - —
1,000-lb or more same basis lb .18 - —
less than 1,000-lb., same basis lb. .23 - —
tanks, same basis lb. .14 - —
Toluenesulfonic acid in 10-gal. dms., 2c per lb. more.
p-Toluenesulfonic acid monohydrate, dms., c.l., or t.l lb. .90 - —
dms., 125 lbs. to t.l. lb. 1.00 - —
m-Toluidine, dms. c.l., works, frt. alld lb. .83 - —
dms., t.e.i., same basis lb. .84 - —
tanks, same basis lb. .82 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .30 - —
dms., t.e.i. same basis lb .31 - —
tanks, same basis lb. .28 - —
p-Toluidine, tech. flake, dms., frt. alld lb. .50 - —
Cast, dms., frt. alld lb. .45 - —
p-Toluidine-m-sulfonic acid, dms., works lb. .92 1.04
Toluidine red toner, deep shades, kgs., works lb. 1.70 - —
Light shades, kgs. works lb. 1.70 - —
2,4-Tolylenediamine, cryst., fib. dms., t.e.i., frt alld lb. 1.10 - —
Tonka beans, Angostura, cks. lb. 1.50 - —
Brazilian, Surinam, cs. lb 1.30 - —
Totaquine, 100-oz lots, cns. oz. .42 —
Toxaphene, dms., c.l., t.l., works. lb 22 —
dms., t.e.i., t.t.i., works lb 28 —
Tragacanth gum, No. 1, ribbons cs lb 4.10 4.20
No. 2, cs. lb 3.75 3.80
No. 3, cs. lb. 3.40 3.65
USP, powd., bbls. lb. 1.05 1.15

"...AND IN CONCLUSION, I REFER YOU TO THE MANY FORMS OF PFIZER DRY VITAMIN A: CRYSTALETS® —A DRY, FREE-FLOWING, EXCEPTIONALLY STABLE FORM OF VITAMIN A ACETATE IN AN OXIDATION-RESISTANT MATRIX OF GELATIN AND SUGAR. ALSO AVAILABLE IN COMBINATIONS WITH VITAMIN D—AS *VITAMIN A AND D CRYSTALETS*.® VITAMIN A PALMILETS® (VITAMIN A PALMITATE STABILIZED IN GELATIN) IS DESIGNED TO SOLVE STABILITY PROBLEMS IN HIGH-MOISTURE PRODUCTS AT EASE, GENTLEMEN—BEAUTIFUL DAY, ISN'T IT? TO CONTINUE, *VITAMIN A AND D PALMILETS* ARE LIKEWISE AVAILABLE. *VITAMIN A PALMILETS* (*TYPES M AND W*) ARE DRY, DISPERSIBLE FORMS OF VITAMIN A PALMITATE. TYPE M IS DISPERSIBLE IN ICE WATER; TYPE W DISPERSES READILY IN TAP WATER. IDEAL FOR USE WHERE RAPID SOLUBILITY IS REQUIRED. *DISPERSIBLE TYPES (M AND W)* ARE ALSO SUPPLIED IN COMBINATION WITH VITAMIN D. (PFIZER OFFERS A COMPLETE LINE OF LIQUID VITAMIN A PRODUCTS TOO). THANK YOU AND GOOD-BYE." CHAS. PFIZER & CO. INC., CHEMICAL DIVISION, BROOKLYN 6, NEW YORK

Pfizer

Triacetin, dms., c.l., dlvd. E. of Rockies lb .39 - —
dms., t.c.l., same basis lb .40 - —
tanks, same basis lb .37 - —
Triallylamine, dms., c.l., dlvd. lb .983 - —
dms., t.c.l., dlvd. lb .995 - —
tanks, dlvd lb .96 - —
Tributyl citrate, tech., non-ref, dms., c.l., frt. alld E of Denver, lb .42¼- —
non-ref dms., t.c.l., frt. alld. E. of Denver lb .43¼- —
tanks, frt alld E. of Denver lb .40 - —
Tributyl phosphate, dms., c.l., works, lb .52½- —
dms, t.c.l., same basis lb .53½- —
tanks, same basis lb .50 - —
Tributylamine dms., c.l., works lb .67½- —
dms., t.c.l., same basis lb .69 - —
tanks, same basis lb .65 - —
Tributyrin, dms, t.c.l. dlvd lb 69 - —
Trichloroacetic acid, tech., 300-lb. dms. c.l., f.o.b works lb .52 - —
USP, 100-lb dms., frt. equald lb 1.25 - —
Trichlorobenzene dms. c.l. frt alld E lb .15 - —
dms., t.c.l. frt alld. E. lb .16 - —
tanks, frt. alld E. lb 13¼ - —
Trichlorobenzene prices in the West 1¾c. higher
1,1,1-Trichloroethane dms., c.l., dlvd lb 13¼ - —
dms., t.c.l., dlvd lb .16 - —
tanks dlvd lb 12¼ - —
1,1,2 Trichloroethane, dms., c.l., works lb .15½- —
dms., t.c.l., works lb .16¼- —
tanks, works lb .13½- —
Trichloroethylene dms. c.l., or t.l. dlvd lb .12½- —
dms., t.c.l., dlvd. lb .14 - .14½
tanks, dlvd. lb .11¼- —
Trichloroisocyanuric acid dms., c.l., t.l. frt equald lb 65 - —
dms. t.c.l. same basis lb 75 - —
Trichlorophenoxyacetic acid (see 2,4,5-T).
Tricholine citrate, 65% soln., ret chys. works, frt adjusted lb 1.40 1.45
Tricresyl phosphate coaltar, dms., c.l., dlvd lb .35 - —
dms., t.c.l., dlvd. lb .36 - —
tanks dlvd lb 32½- —
Tricresyl phosphate, petroleum, dms., c.l., dlvd lb .35 - —
dms., t.c.l., dlvd. lb .36 - —
tanks dlvd lb 32½- —
Tridecyl alcohol, mixed isomers, dms., c.l. dlvd. E lb 26½- —
dms., t.c.l., dlvd. E lb 28 - —
tanks dlvd E lb 24 - —
Triethanolamine dms. c.l., dlvd E. lb 24½- —
dms., t.c.l., same basis lb 26 - —
tanks, same basis lb 22 - —
Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld lb 25½- —
dms. t.t.l. frt alld. lb 26½- —
tanks frt alld lb 24½- —
Triethylamine dms. c.l., dlvd E. lb .50 - —
dms., t.c.l., same basis lb 51½- —
tanks, same basis lb 47½- —
Triethyl citrate, refd., tech., non-ret dms. c.l., frt alld E. of Denver lb. 46¼- —
non-ret dms., t.c.l., frt alld. E. of Denver lb. 47¼- —
tanks frt alld E. of Denver. lb. 43¾- —
Triethyl phosphate, dms., c.l., dlvd. lb. 40½- —
dms., t.c.l., dlvd. lb. 42 - —
tanks dlvd lb. 38 - —
Triethylene glycol, dms., c.l., dlvd. E lb. .21 - —
dms., t.c.l., dlvd. E lb. 22½- —
tanks, dlvd. E lb. 18½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. 51½- —
dms., t.c.l., dlvd. E lb. 53 - —
tanks, dlvd E lb. 49 - —
Trilisobutylene, tanks, dlvd. lb. .08 - —
Tri-isopropanolamine, dms., c.l., dlvd. E lb. 23¼- —
dms., t.c.l., dlvd. E. lb. 24¾- —
tanks, dlvd E lb. 20¼- —
Trimethylamine, anhyd., cyls., t.c.l., frt. equald, 100% basis lb. .30 .305
tanks frt equald, 100% basis, lb. .26 - —
25-40% soln. dms., c.l., frt. equald, 100% basis lb. .35 - —
dms., t.c.l. frt. equald, 100% basis lb. .35½- —
tanks, 100% basis, frt. equald lb. .26 - —
Trimethylolpropane, dms., c.l., t.l., dlvd. E lb. .30½- —
dms., t.c.l., t.t.l., same basis lb. .31½- —
Trioxanes, pure, dms., c.l., t.l., works lb. .50 - —
dms. t.c.l. works lb. .31½- —
Tripentaerythritol, bgs., c.l., t.l., dlvd. E lb. .34 - —
bgs., t.c.l., t.t.l., dlvd. E lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. 41½- —
bbls. t.c.l. frt equald lb. 43½- —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene dms., c.l., dlvd. E gal. 44 - —
dms., t.c.l. same basis gal. .54 - —
tanks, same basis gal. .28 - —
Tripropylene glycol, dms., c.l., t.l., frt alld E lb. 20½- —
dms., t.c.l. t.t.l. frt. alld. E lb. .22 - —
tankcars and compartmented tankcars, frt alld E lb. .17½- —
Tripropylene glycol, tankwagon and compartmented tankwagons, 1,000 gals. min. frt. alld. E lb. .18 - —
Tripropylene glycol prices 1c per lb. higher in west.
Trisodium phosphate (see Sodium phosphate tribasic)
dl-Tryptophane, dms., 1 kilo, works, kilo. 154.00 - —
Tung oil, dms., New York lb. .26½- .27
tanks, imported lb. .25 - .25¼
tanks, domestic, mills lb. .25 Nom.
Tungsten metal powd., 2.0-2.5 microns, dms., works lb 4.25 - —
Tungstic acid tech., dms., 1,000-lb. lots, works lb 2.25 - —
dms. smaller lots, works lb 2.45 - —
Turkey red, bbls, works lb. .62 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Turpentine oil NF, ens., dms lb. .28 .50
Tuscan red bbls, frt equald lb 26 .33
Tyrothricin, USP, 1 to 5 kilos gram. .50 - —

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb. bbls., dlvd. E. of Rockies lb. .30½- .38
Jobbing types, dry, bbls., same basis lb. .16 - .22½
Regular types, dry bbls., same basis lb .16 - .37½
Ultramarine blue prices 1c higher W of Rockies.
Umber pigment, burnt, American, bgs., c.l., works lb. .07½- .07¾
bgs., t.c.l., works lb. .07¾- .08
Umber pigment, burnt, turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y lb. .08¼- —
Raw, American, bgs., works lb. .07¼- .08¼
Turkey-type, bgs., works lb. .08½- .08¾
Undecylenic acid, 55-gal. dms., f.o.b. works lb. 1.28 - —
Unicorn root, false (see Helonias root).
Unicorn root, true (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E. ton.98.00 - —
bgs., t.c.l., dlvd. E ex whse ton.100.00 - —
45% N, agricultural, bgs. c.l. (30 tons) dlvd. E ton.100.00 - —
Urea-ammonia liquor A, B, C & F grades, N basis, tanks, frt. equald ton.120.00 - —
37 grade, tanks, same basis ton.145.00 - —
Urethane, USP dms., t.l., f.o.b., works lb .65 - —
dms., t.l.l., same basis lb .70 - —
Uva-ursi leaves, bls lb .12 - —

V

Valerian root, Belgian bgs. lb .32 - —
Indian, bgs lb .25 - —
dl-Valine, dms., 1 kilo, works kilo.37.00 - —
Vanadium pentoxide, tech. dms. works lb 1.38 - —
Vandyke brown, bbls, works lb .09½ - 12
Vanilla beans, Bourbon, tins lb. 7.35 - 7.50
Mexican cuts, tins lb. 7.25 - 7.50
whole, tins lb. 7.75 - 8.50
Vanillin ex lignin, 100-lb. fib. dms., 2,000-lb. lots or more lb. 3.00 - —
less than 2,000 lbs lb. 3.20 - 3.30
Venetian red, jobbing, bgs. works lb .0475- —
Venetian red, 20%, bgs., works lb .0525- —
25% bgs., works lb .0575- —
30% bgs., works lb .06 - —
35% bgs., works lb .0625- —
40% bgs. works lb .0675 - —
Vetiver oil, Bourbon, ens lb.17.00 -17.25
Haitian, ens. lb.12.00 -14.00
Victoria blue toner, molybdated, PMA 250-lb. bbls., dlvd. E. of Rockies lb 4.50 4.95
Tungstated, PTMA, 250-lb bbls., dlvd. E of Rockies lb 5.55 —
Victoria blue toner bbls. prices 1c. higher W of Rockies
Vinyl acetate monomer, zone 1, 55-gal dms., c.l., dlvd lb .1810- —
55-gal dms. t.c.l., dlvd lb .1960- —
tanks, dlvd. lb .1560- —
tanktrucks less than 4,000 gal. dlvd lb .1610- —
Vinyl n-butyl ether, tech. dms., t.c.l., works lb .50 - —
Vinyl chloride monomer, tanks, works, min. frt. equald. E. lb .0891- —
Vinyl ether, USP, anethesia, bots., 50cc., hospitals bot 1.12 - —
bots. 75cc. hospitals bot 1.56 - —
Vinyl ethyl ether, tech., dms., c.l., works lb .30¼- —
dms., t.c.l., works lb .31 - —
tanks, works lb .28¼- —
Vinyl propionate monomer, dms., c.l., dlvd lb .49 - —
dms. t.c.l., same basis lb .50 - —
tanks, same basis lb .47 - —
Vinyl trichloride (see Trichloroethane)
2-Vinylpyridine, 10 dms to tanks, works lb 1.20 - —
1 to 9 dms., works lb 1.35 - —
tanks, works lb 1.15 - —
Vinyltoluene, dms., c.l., f.o.b., works lb .16½- —
dms., t.c.l., same basis lb .18½- —
tanks, f.o.b dest. frt. prepaid lb .14 - —
Viosterol in nat vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units .02½- —
Virginia type red, bbls., works lb 1.40 - —
Vitiamin A acetate, syn., cryst., beads, 500,000 A units per gram gram .07¼- —
Vitamin A acetate, dry, 500,000 units per gram, kilo lots kilo.65.00 - —
325,000 units per gram, same basis kilo.43.88 - —
250,000 units per gram, same basis kilo.33.75 - —
Dry vitamin A acetate in less than kilo lots, $1.25 to $2.50 per kilo higher
Vitamin A, liq in oil, 1,000,000 A units per gram 1,000,000 units .09½- —
Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units 09½- —
Vitamin B_1 (see Thiamine hydrochloride).
Vitamin B_2 (see Riboflavin and Yeast).
Vitamin B_{12}, cryst., USP (cyanocobalamin), 1-50 grams, vials, tins gram.45.00 - —
Vitamin B_{12}, 0.1% vitamin B_{12}, USP, adsorbed on gelatin, 100 and 500-gram bots on 1-5 kilo dms. gram. 1.00 - —
Vitamin B_{12}, 0.1% vitamin B_{12}, USP, adsorbed on resin, 100 and 500-gram bots., 1-5 kilo dms., gram. 1.00 - —
Vitamin B_{12}, oral grade solids in containers of 1 and 10 gram of B^{12} activity gram.52.00 - —
0.1% trituration of cryst., B_{12} with dicalcium phosphate or mannitol, 1-10 kilo.52.00 - —
Vitamin B_{12}, 0.1% cobalamin concentrate, NF, adsorbed on resin, 500-gram bots., 1-5 kilo, dms. frt. alld gram .90 - —
0.1% cobalamin concentrate in gelatin, 1-10 kilo dms., frt. alld gram .90 - —
Vitamin C (see Ascorbic acid).
Vitamin D, (see Codliver and Fishliver oils, Calciferol and Viosterol)
Vitamin D, dry, 850,000 units per gram, kilo lots kilo.42.50 - —
850,000 units per gram less than kilo lots kilo.45.00 - —
Vitamin E (see a-Tocopherol and Wheat germ oil).
Vitamin H (see Biotin).
Vitamin K, active (see Menadione).
Vitamin K^1, 25-gram lots gram. 4.50 - —
Violet methyl toner (see Methyl violet toner).
VM&P naphtha (see Naphtha, VM&P, petroleum).

W

Wahoo root bark, bls. lb. 2.00 2.25
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb 1.95 - —
dms. 25-49-lb. lots, New York or Chicago lb 2.05 - —
dms., 5-24-lb. lots, New York or Chicago lb 2.15 - —
Watchung-type reds., bbls lb. 1.95 - —

WAXES
Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal. dms. gal.12.20 - —
White lead (see Lead, white).
White mineral oil (see Mineral oil, white).
White pine bark, rossed, bls. lb .21 - .23
White precipitate, USP, powd., dms., 100 lbs., f.o.b. works lb 5.50 - —
Whiting (see Calcium carbonate)
Wild cherry bark, thin, nat., bls. lb. .30 - —
Wintergreen oil, USP nat northern, ens lb. 6.35 -17.50
USP, nat. southern ens lb 3.75 7.00
Wintergreen oil, syn. (see Methyl salicylate).
Witch hazel bark, bls lb. .30 - .35
Witch hazel leaves, bls lb. .75 - .80
Wollastonite, fine, paint grade, bgs., c.l., works ton.41.00 - —
bgs., t.c.l., ex whse ton.51.00 - —
Medium paint grade, bgs., c.l., works ton.29.00 - —
bgs., t.c.l., ex whse. ton.39.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil).
Woolfat crude (see Degras)
Woolfat USP (see Lanolin).
Wormseed, Levant bgs lb 2.50 - —
Wormseed oil (see Chenopodium oil NF).
Wormwood oil, ens lb. 4.75 - —

X

Xylene coaltar, indust., tanks, works: Bethlehem, Pa. gal 29 - —
Birmingham dist. gal 29 - —
Chicago dist gal 28½- —
Cleveland dist gal 29 - —
Xylene, coaltar, indus., tanks, works: Geneva, Utah gal 29 - —
Johnstown Pa gal 29 - —
Lackawanna, N.Y. gal. 29½- —
Lone Star, Tex gal 27 - —
Lorain, Ohio gal 29 - —
Middletown, Ohio gal 30 - —
Xylene, coaltar, indust., tanks, works: Minnequa, Col gal 29 - —
Philadelphia dist gal 29 - —
Pittsburgh dist gal 29 - —
Sparrows Point, Md. gal 29 - —
Terre Haute, Ind. gal 29 - —
Youngstown, Ohio gal 29 - —
Xylene, petroleum, indust., tanks f.o.b works: Bayonne, N.J. gal .29 - —
Baytown, Tex gal .27 - —
Charleston, S. C. gal. 29 - —
Chicago, Ill gal. 28½- —
Detroit, Mich., dlvd gal. 27½- .29
Houston, Tex. gal. 27 - —
Philadelphia, Pa. gal. 29 - —
Providence, R. I. gal. 30 - —
Sewell's Point, Va. gal. 28 - —
Wood River, Ill gal 28½- —
m-Xylene, 95%, dms., c.l., f.o.b., Richmond, Calif lb. .21 - —
dms. t.c.l. f.o.b., Richmond, Calif lb .22 - —
tanks, frt. alld. lb. .19 - —
o-Xylene, dms., c.l., works lb .08 - —
dms., t.c.l., works lb .09 - —
tanks, works lb .06 - .06½
p-Xylene, dms., c.l., works lb .20 - —
dms., t.c.l., works lb .21 - —
tanks, frt alld lb .1645- —
Xylenol, cryst., 45°-47°C., m.p., dms., t.c.l., works, frt. equald lb. .23 - —
56°-58°C., m.p., dms., t.c.l., works, frt equald lb. .33 - —
Xylenol, cryst., 60°-62°C., m.p., dms., t.c.l., same basis, lb 40 - —
Xylenol fraction, b.r 7°-9° C., dry above 227° C., dms., c.l., same basis gal 1.25 - —
dms., t.c.l., same basis gal 1.30 - —
tanks, same basis gal. 1.05 - —
b.r. 7°-9° C., dry at or below 227° C., dms. c.l. same basis, gal. 1.35 - —
Xylenol fraction, b.r 7°-9° C., dry at or below 227° C., dms., t.c.l., same basis gal. 1.40 - —
2,4-Xylidine, tech., dms. frt allid. lb. 1.15 - —
2,5-Xylidine, tech., dms., frt allid. lb 1.20 - —
Xylidines, mixed, o-m-p, dms., c.l., or t.l., works lb .39 - —
dms., t.c.l. same basis lb 40 - —
tanks, same basis lb. .38 - —

XYLOL
Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, ens. lb. 2.15 3.05
Yeast, brewers, debittered, USP XV, Saccharomyces, dlvd lb. .27 - —
Yeast, brewers, primary, USP XV, 150 meg. B^1 per gram, 100-lb. dms lb. .47 - —
USP XV, 270 mcg., B_1 per gram, 100-lb dms lb. .52 - —
Yeast, brewers, primary, USP, XV, 300 mcg., B_1 per gram, 100-lb. dms lb. .56 - —
USP XV, 900 mcg., B_1 per gram 100-lb. dms. lb. .60 - —
Torula, USP dlvd. lb. .18 - —

YELLOW PIGMENTS
Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow

Yerba santa leaves, bls lb. .40 45
Ylang-ylang oil, Bourbon, bots lb. 7.00 -22.00
Ylang Ylang oil, Bourbon, extra bots lb.24.00 -33.00
Yohimbine hydrochloride, bots., tins. oz. 3.75 4.25

Z

Zein, bgs., 36,000-lb. lots or more, bgs. 500-lb lots or more, dlvd lb. .343 - —
bgs. smaller lots, dlvd lb. .373 - —
Zinc acetate, NF, VIII, dms lb. .53 - —
Tech. dms. t.t.l. works lb. .29¾- —
Zinc borate, bgs., 1,000 lbs or more, works lb. .25 - —
bgs. less than 1,000 lbs., same basis lb. .27 - —
Zinc chloride, NF, gran., dms lb. .42 - —
NF, precip., powd., dms lb. .26 - —
Tech., soln., 50%, dms., c.l., works 100 lbs. 5.80 - —
dms., t.c.l., works 100 lbs 6.40 - —
tanks, works 100 lbs. 5.15 - —
fused, dms., c.l., works 100 lbs.10.70 - —
dms., t.c.l., works 100lbs.11.20 - —
gran., fib. dms., c.l., works. 100 lbs.11.45 - —
fib dms., t.c.l., works 100 lbs.11.95 - —
Zinc chromate, bbls., dlvd. lb. .29 - —
Basic, bbls., dlvd. lb. .34 - —
Zinc cyanide, dms., 1,000-lb. lots or more, works lb. .55 - —
dms., smaller lots, works lb. .57 - —
Zinc dust, coml, bbls., c.l. works. lb. .16 - —
Pigment, bbls., c.l., works lb. .15½- —
bbls., t.c.l., works lb. .17¼- —
Zinc fluoride, bbls., works lb. .49 - .50
Zinc hydrosulfite, dms., c.l., frt. allid lb. .21¼- —
dms., t.c.l., frt. allid. lb. .23½- —
Zinc metal, prime western, slabs, E. St. Louis lb. .12 Nom.
Prime western slabs, New York lb. .12½ Nom.
Zinc naphthenate liq. 8% Zn., dms., frt. allid lb. .27 - —
10% Zn., dms., frt. allid lb. .33 - —
Zinc nitrate, tech., flake, 100-lb. fib. dms., t.c.l. lb. .16½- —
300-lb. fib. dms, t.c.l. lb. .14½- —
300-lb. fib. dms., c.l. lb. .14 - —
Zinc oxide, pigment, American process, lead-free bgs. c.l., frt. allid lb .14½ —
bgs., t.c.l., 10 tons or more, same basis lb. .15 —
bgs., t.c.l., smaller lots, same basis lb. .15½- —
Zinc oxide, leaded, 35% bgs., c.l., mills, frt. allid lb. .15¾- —
bgs., t.c.l. 10 tons or more, same basis lb. .15¾- —
50%, bgs., c.l., same basis lb. .15¾- —
pigment, American process, leaded, 50%, bgs., t.c.l., 10 tons or more, same basis. lb. .16½ —
French process, green seal, bgs., c.l., mills, frt allid lb. .16½ —
bgs., t.c.l. 10 tons or more, same basis lb 16¾ —
Zinc oxide, French process, green seal, bgs., t.c.l., smaller lots, same basis lb. .17½ —
red seal, bgs., c.l. same basis, lb. .15¾- —
Zinc oxide, French process, green seal, bgs., t.c.l., 10 tons or more, same basis lb. .16½ —
bgs. t.c.l. smaller lots, same basis lb 16¾ —
Zinc oxide, white seal, bgs., c.l., same basis lb. .16¾ —
bgs., t.c.l., 10 tons or more, same basis lb .17¼ —
bgs., t.c.l. smaller lots, same basis lb .17¾ —
Zinc oxide, USP dms. c.l. frt allid. lb. .18¼ —
dms., t.c.l., 10 tons or more, same basis lb .18¾ —
dms., t.c.l., smaller lots, same basis lb. .19¼ —
Zinc phenolsulfonate, NF, gran., dms lb. .45 .46
NF, powd. dms lb. .48 .49
Zinc resinate precip 7.2-7.6% Zn., dms., frt. allid lb. .45 - —
Zinc silicofluoride, dms. works in 12½ .14
Zinc stearate, USP, ctns., c.l. lb. .41 - —
lb. .41 —
ctns. t.c.l lb .42 .46
Zinc sulfate, powd., monohydrate, 36% Zn, bgs. c.l. dlvd.E. 100 lbs 8.75 - —
bgs. t.c.l. dlvd. E 100 lbs 9.75 - —
Zinc sulfate in bbls 40c higher
Zinc sulfide, pure, bgs. c.l. dlvd lb. .2530-
Zinc undecylenate, 75-lb. fib. dms., f.o.b. works lb. 2.04 - —
Zinc, yellow (see Zinc chromate)
Zinc-ammonium chloride, bgs., c.l., works 100 lbs.10.25 - —
bbls., c.l., works 100 lbs.10.85 - —
bbls., t.c.l. works 100 lbs.11.35 - —
Zinc-formaldehyde sulfoxylate, basic, 300-lb dms., frt. allid lb .26 - —
Normal, 250-lb. dms., frt. allid lb. .55 - —
Zircon (G) gran. bgs. c.l. works. lb. .03½- —
Zircon (G) gran., bgs., 5 tons to c.l., works lb. .03½- —
bgs., 1 ton to 9,999-lb lots, works lb. .04 - —
bgs., smaller lots, works lb. .06½- —
Zircon (G) milled, bgs. c.l. works. lb. .04½- —
bgs., 5 tons to c.l., works lb. .04½- —
bgs., 1 ton to 9,999-lb. lots, works lb. .04¾- —
bgs., 500-1,999-lb. lots, works lb. .07½- —
Zircon (G) in barrels 1c. higher
Zirconium acetate soln., 13% ZrO_2, dms. c.l. 30,000 lbs. min., works lb. .23 - —
Zirconium hydride, powd. electronic grade, dms., works lb.14.00 -15.00
Zirconium oxide, CP, white, grd., bbls. or bgs., works lb. 1.50 —
Electric-fused lump, bgs., 500 to 1,999-lb lots, works lb. .48½- —
bgs., smaller lots, works lb. .51 - —
milled, bgs., c.l., works lb. .62 - —
bgs., 5-ton lots, works lb. .62½- —
bgs., 1-ton to 9,999-lb. lots, works lb. .63½- —
bgs., 500 to 1,999-lb. lots, works lb. .64 - —
bgs., smaller lots, works lb. .66 - —
Glass polishing grade, 94-97% ZrO_2, bgs., works lb. .55 - .65
Opacifier grade, 85-90% ZrO_2, bgs., lb. .27 - .30
Stabilized oxide, 91% ZrO_2, milled, bgs lb. .62 .68
Zirconium oxychloride, cryst., ctns., 5-ton lots, works lb. .37½- —

Bids Wanted

Sodium Cyanide, spec. formula & Desc. specified in invitation, 29,040 pounds, various destinations. Bid IFB 63077-2222-61B, Feb. 9. Military Industrial Supply Agency, 700 Robbins Ave., Philadelphia 11, Pa.

Sodium Chloride, technical, in accord with Fed. Spec. SS-S-550, Type II—1400 Cont.; T/C period date of award thru 1-31-62. Bid IFB SFU-13955-61, February 16. General Services Administration, Region 9, Business Service Center, 49 Fourth St., San Francisco, Calif.

Insecticide, DDT, powder form, dusting, chemical composition 10 percent DDT, 90 percent talc or prophyllite; size, 2 oz. can. Fed. Spec. 0-1-578, FSN 6840-274-5451—40,000 cans. Bid IFB 6-250B, Feb. 6. SM Purchasing Agency, Columbus General Depot, Columbus, Ohio.

Herbicide, 2,4 dichlorophenoxyacetic acid, volatile butyl ester and low-volatile butyl ester, miscible with oil and emulsifiable with water, in 50-gallon drums. Fed. Spec. O-H-200A and Interim Amend. 1, Type III, Class 1 and 2—212 drums. Bid IFB. 9050, January 31. General Services Administration, Region 8, Business Service Center, Bldg. 41, Denver Federal Center, Denver 25, Colo.

Ethylene Glycol (6810-526-2015) (GSSF), technical, distillation data, not rated on basis of boiling range, 192 deg. C. min. initial BP temp. Intermediate temp /min. percentage distilled 200 deg. C. max. 95 percent distilled, 208 deg. C. max. dry point, not rated on basis of temp. included in boiling range, boiling range determined at 760 MM pressure, 1.1151 to 1.1156 gr. at 20 deg. (20) deg. C., in accord with Mil. Spec. MIL-E-9500 (USAF) dated 14, May, 54; 55 gallon, Unit Quantity per drum. Bid A:F.O.B. Carrier's equipment—2,475 gal. Bid B:F.O.B. destination, 2,475 gal. IFB 36-600-61-213. Bid opening Feb. 8. Directorate, Procurement and Production, Middletown Air Material Area, Olmstead Air Force Base, Pa.

Dye, Xylene Azo-Xylene ASO Beta Naphtol (6820-559-3248) National Aniline Div. of Allied Chemical Corp. Trade name solvent Rd. No. 27 or equal; Powder form; must be soluble in JP-4 jet fuel; 8 oz. unit quantity per can, 4,020 cans. Bid IFB 36-600-61-221, Feb. 2. Directorate Procurement and Production, Middletown Air Material Area, Olmstead Air Force Base, Pa.

Heavy Chemicals

Copper chemical prices have been trimmed to line up with the lower tag on copper. Carbonate is down 50 cents a hundredweight, cupric down ¼ cent to ½ cent a pound, cuprous down 7/10 cent, and sulfate down 25 cents to 50 cents a hundredweight. The decline in copper, which took place two weeks ago, amounted to 1 cent a pound; so far it has failed to stimulate buying interest and US supplies remain high. Undertone in other nonferrous metals remained weak, zinc also failing to gain strength from a recent price trimming.

A leading hydrofluoric acid producer in the east is now making 70 percent acid available for the first time in tank transports. The innovation is expected to benefit large as well as small consumers, since prices have been set at the level of carlots. The 15-ton shipments should mean greater convenience and flexibility on top of the obvious price break.

Sodium sulfate remains in snug supply, with just enough material to cover the currently slow rate of business. When soapers start seasonal buying on March 1 the situation is most likely to be tight again.

Sulfur pricing on the east coast is now rated as close to normal as it ever gets. Following a month of confusion, prices are now $2 a ton higher for new business, with the increase applying to old business as contracts fall due. In practice this means a reduction of $2 in allowances—formerly $3.50 and higher plus a freight consideration—offered by producers in that area.

Hydrochloric and sulfuric acid pricing continues as previously, although the latter is promised a stronger tone by the rise in sulfur prices.

The American Paper and Pulp Association reported production for the week ended Jan. 21, at 88.0 percent of theoretical capacity, as compared with the revised figure of 90.4 percent for the previous week and 96.9 percent for the corresponding week of last year.

Price Trends

Advanced

None

Reduced

Copper carbonate, 50c. per 100-lbs.
Copper chloride, cupric, cryst., reg., ¼c. per lb.
Cryst., dried, ½c. per lb.
Anhyd., ½c. per lb.
Cuprous, 7/10c. per lb.
Copper sulfate, cryst., 25c. per 100-lbs.
monohydrated, 35c. per 100-lbs.
tribasic, 50c. per 100-lbs.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
106.84	106.85	106.84	106.82

For Current Prices see Page 10

Acids

Boric—The decline in new construction and automobile sales are unfavorable factors that the market will have to reckon with in the months ahead.

After granting this much, observers point out that the real test will come during the spring retail season. The strength evinced by purchasing power at that time will indicate whether the economy is going to move along at the current reduced rate or pick up steam for a second-half upturn.

Boric acid is tied to a broad range of consuming outlets. This helps to keep its sales curve on a steady rise during boom times. As a corollary, trade sources point out, a downturn in the level of business activity does not pass unfelt.

Chromic—Appliance and novelty accounts (chromium ashtrays, knickknacks, etc.) have fallen off—seasonally and recessionwise. Automobile activity is a little slower, with dubious prospects. Defense accounts, however, are holding up their end of the business.

Hydrochloric—A normal seasonal slowdown coincides with what may prove to be the low point of the business downturn, making for a stodgy hydrochloric market. No new pressure is reported on prices. Availability of byproduct muriatic and the competitive posture of smaller firms are factors that have already been reckoned with by prices.

Hydrofluoric—A major producer in the east is making 70 percent acid available for the first time in tank transports. The innovation is expected to benefit large as well as small consumers, since prices have been set at the same level as carlots.

For small users, the price advantage is obvious. For the larger consumers, these 15-ton shipments should mean greater convenience and flexibility, a spokesman for the company says.

Sulfuric—Over the long term, sulfuric prices are expected to strengthen from the advance in sulfur, if only by a return to list levels on the east coast. Whether there will be a short term effect remains to be seen.

Bases and Salts

Borax—Prices are rated steady at the higher levels that went into effect January 1 for ex-warehouse shipments, and the levels prevailing since June 1959 for bulk material.

Buiness is reported moderate to good. But sources in the trade concede that the outlook has been partially obscured by the downturn in both housing starts and automobile sales.

Copper Carbonate—Quotations have been lowered to reflect the recent decline in copper. Dark dense is newly quoted at $34.35 per 100 pounds in carloads, down 50 cents.

Copper Chloride—Prices have been trimmed by ¼c. to 7/10c. a pound to reflect lower copper. Regular crystals are newly quoted at 29¾c. a pound in truckloads, down ¼c.; dried crystals at 37¾c., down ½c.; and anhydrous material at 43½c., also down ½c. Cuprous has been reduced 7/10c. a pound to 38.55c. in carloads.

Copper Sulfate—Prices are down ¼c. to ½c. a pound, lining up with the lower tab on copper metal. Crystalline in carloads is now $12 a hundredweight, down 25 cents; monohydrated, $22.65, down 35 cents; tribasic, $29.10, down 50 cents.

Sodium Sulfate—Supply, heretofore in short rations, is now reported in balance, the result of seasonally slack activity by soapers.

But come March 1, the soap people will be back in business, and sodium sulfate producers are preparing to open the throttle wide. A supply shortage of at least minor proportions is anticipated, as soap is one product unlikely to be affected by the economic downturn.

Sulfur—Pricing along the east coast has settled to as close to normal as it ever gets, following a month of confusion:

Prices are $2 a ton higher for new business, and the increase will be applied to old business as contracts fall due. In practice, this means a reduction of $2 in the allowances formerly ranging $3.50 plus a freight consideration, offered by producers in the area.

Quotations further west have been unaffected. Reportedly, prices along the Mississippi are steady at list with some minor, irregular shading.

Nonferrous Metals

Aluminum—Imports of crude aluminum and semifabricated shapes in the US in November were down from October, but exports rose, according to Business & Defense Services Administration.

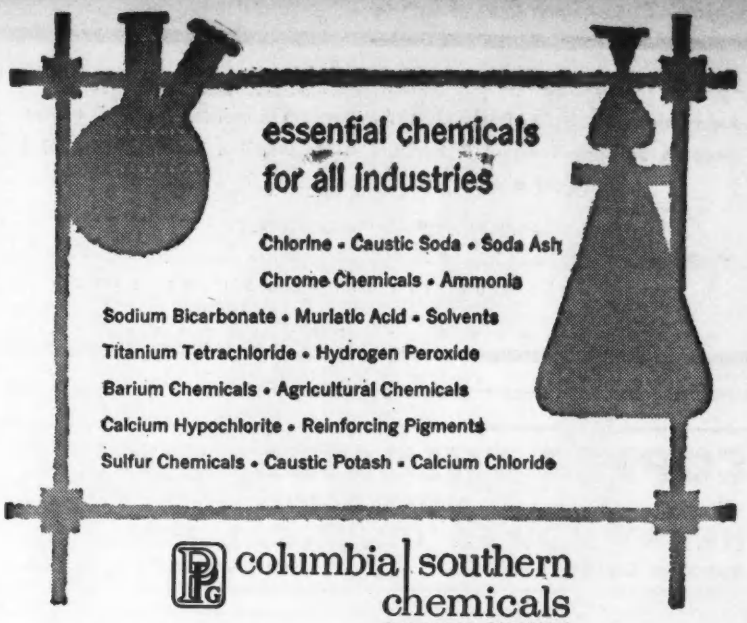
Imports of aluminum were 29.1 million pounds, those of semifabricated shapes 6.1 million pounds, down from 32.5 million and 7.3 million pounds, respectively. The 11-month totals were down from 1959, crude imports by 33 percent and semifabricated imports by 25 percent, BDSA notes.

Exports of crude aluminum in November were 44.9 million pounds, up from 21.7 million in October. The 11-month total was 517.6 million pounds, as compared with 194.3 million pounds in 1959.

Copper—Purchased copper-base scrap receipts at brass mills in the US dropped 17 percent to 26,200 tons in November, the Bureau of Mines reports. Consumption of all scrap fell 8 percent and stocks decreased slightly, Mines notes.

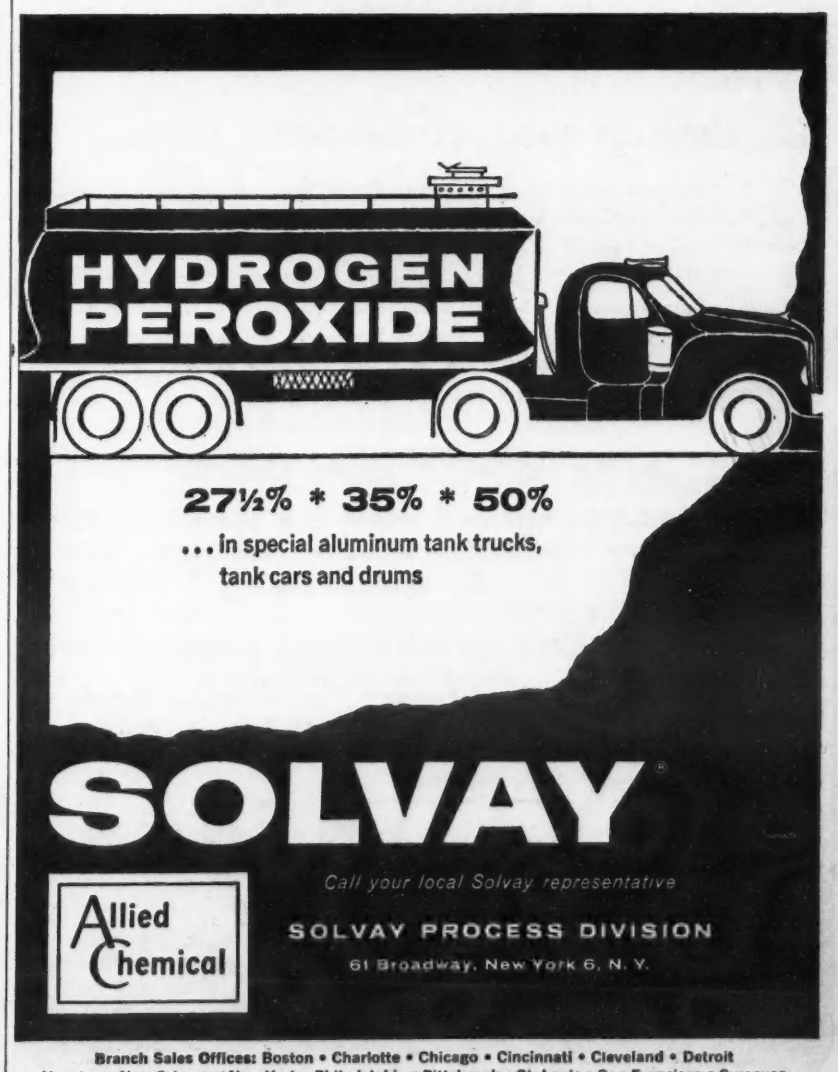
Consumption of refined copper declined 4 percent at both wire mills and brass mills in November, the agency goes on to report. Refined copper stocks dropped 4 percent at wire mills but rose 2 percent at brass mills, it is noted.

US production of refined copper in 1960 was about 1.8 million tons, an alltime high,


essential chemicals
for all industries
Chlorine • Caustic Soda • Soda Ash
Chrome Chemicals • Ammonia
Sodium Bicarbonate • Muriatic Acid • Solvents
Titanium Tetrachloride • Hydrogen Peroxide
Barium Chemicals • Agricultural Chemicals
Calcium Hypochlorite • Reinforcing Pigments
Sulfur Chemicals • Caustic Potash • Calcium Chloride
columbia | southern chemicals
CHEMICAL DIVISION
PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER PITTSBURGH 22, PENNSYLVANIA

Salt Cake

F. H. Ross & Co.
MUrray Hill 2-7136
155 E. 44th Street • New York 17, N. Y.
EXpress 2-2121
3930 Glenwood Drive • Charlotte, N. C.


HYDROGEN PEROXIDE
27½% * 35% * 50%
... in special aluminum tank trucks, tank cars and drums
SOLVAY®
Call your local Solvay representative
Allied Chemical
SOLVAY PROCESS DIVISION
61 Broadway, New York 6, N. Y.

Branch Sales Offices: Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit
Houston • New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • San Francisco • Syracuse

AMMONIUM COMPOUNDS available in tonnage quantities

Ammonium Bisulfate, Purified • Ammonium Bisulfite, Purified • Ammonium Sulfate, Reagent & Purified • Ammonium Sulfide, Reagent & Technical • Ammonium Thiosulfate, 60% Solution

HEICO, INC.

QUALITY THROUGH RESEARCH

STROUDSBURG • PENNSYLVANIA

COPPER CHLORIDE, CUPRIC

(CUPRIC CHLORIDE)

HENRY BOWER CHEMICAL MFG. CO.

30TH AND GRAYS FERRY RD. PHILADELPHIA 46, PENNA.

CMC

IMPERIAL CHEMICAL INDUSTRIES LIMITED

Ammonium Chloride, Grey and White • Ammonium Bicarbonate USP • Ammonium Carbonate • Bleaching Powder Tropical 34%-36% Cl_2 • Calcium Formate • Chlorinated Rubber • Copper Cyanide • Potassium Cyanide • Sodium Cyanide, all grades • Zinc Cyanide • Sodium Aluminate • Sodium Bicarbonate USP and Tech. • Sodium Carbonate Monohydrate • Sodium Perborate • Trichlorethylene, all grades • Urea, 46% Tech. • 3,5,5 Trimethyl Hexanol • 2:4 Dimethyl 6-Tertiary Butyl Phenol • Hexachloroethane

PETER SPENCE & SONS LIMITED

Aluminum Sulphate, Iron Free • Ammonia Alum • Butyl Titanate • Potassium Alum • Titanium Potassium Oxylate • Cobalt Molybdenum Catalysts

DEEPWATER CHEMICAL CO., LIMITED

Iodine, Resublimed USP and Reagent * Potassium Iodide, USP and Reagent * Potassium Iodate, USP and Reagent * Special Potassium Iodide Mixtures * Cuprous Iodide, Tech. * Sodium Iodide

LCL quantities available from Distributor Stocks in your area. This is only a partial listing of the items we offer. Write for complete product listings.

CHEMICAL MANUFACTURING CO., INC.

444 Madison Ave. • New York 22, N. Y.

714 West Olympic Blvd., Los Angeles 15, Calif.

114 Sansome Street, San Francisco 4, Calif.

Heavy Chemicals

Business & Defense Services Administration reports.

Lowered demand in the US, a world output in excess of consumption, and competitive European pricing were factors that contributed to a 3 cent reduction in the domestic price of refined copper to 30 cents on October 13, 1960.

Imports of brass mill products in 1960 are expected to be some 20 percent less than last year's record high of 199 million pounds. Although copper wire mill imports declined progressively in 1960, they far exceeded those in 1959, BDSA reports.

"Present indications, according to the best information available, are that there may be little, if any, gain in demand for copper-base mill and foundry products in the next several months," the agency adds.

Mercury—Static business continued, prices holding at $209 to $212 a flask for large lots, prompt shipment.

Silver—Price has been long unvaried at 91 3/8c. a troy ounce, spot.

Tin——Market was quiet, prices unchanged at $1.01 a pound, spot, for straits metal.

Benzene Expansion Fever

—Continued from page 3

santo Chemical Company, Humble Oil & Refining Company and Signal Oil & Gas Company, and future capacity, promised and otherwise, looks mighty imposing (OPD, 1/9/61).

At the end of 1960, OPD estimates, there was about 500 million gallons of petroleum benzene capacity. Recent announcements by eighteen companies of benzene expansions will add 345 million gallons to the total by the end of 1962.

Coal chemical industry capacity for producing benzene (cokeovens and tar distillers) is reckoned at 210 million gallons a year. The way the steel picture looks, this capacity is not expected to grow appreciably during the next couple of years.

Benzene Capacity

1962	1.055 billion gals.
1960	710 million gals.
1959	580 million gals.
1958	470 million gals.
1957	395 million gals.
1956	360 million gals.
1955	340 million gals.
1954	315 million gals.

Above capacity figures are for petroleum-based and coaltar benzene combined.

But with capacity for both petroleum and coaltar benzene now at 710 million gallons a year, and more than likely to pass the billion-gallon mark by 1962, some industry observers are wondering what's going to happen that year when demand is less than half that figure.

Not to be ruled out is a persistent rumor (persistently no-commented by the company) that Dow Chemical Company is already negotiating for toluene from nearby refineries in the Texas City, Tex., area for a projected 30-million-gallon-a-year hydrodealkylation benzene unit.

Chemoil Corporation, New Orleans, La., is just about settled on where it will put its planned $60 million refinery. Some 3 million gallons of benzene capacity is figured for the plant, which will also produce toluene, xylene, liquefied petroleum gases, ethane and ethylene. Most probably, the refinery will be located at Gramercy, La.

Revelation of Crown Central's new project last week came almost at the end of the company's expansion program. First, catalytic reforming capacity was boosted 50 percent; then came the "Udex" and Houdry units for aromatics production.

Stepan's New Cash

—Continued from page 5

de Nemours & Co., Wilmington, Del., and Ethyl Corporation, the New York offspring of General Motors Corporation and Standard Oil Company (New Jersey).

Planning to enter the field, for the manufacture of both tetraethyl and tetramethyl, is Houston Chemical Corporation, which promises to have a new plant in Beaumont, Tex., early next year.

The Italian concern will train personnel and will have an equity in the Stepan manufacturing operation, but the Chicago firm will have the principal interest.

Present-day production of TEL and TML comes to about 550 million pounds a year in this country. Most of it is TEL in an antiknock market that runs to $320 million a year.

What's your toughest problem on magnesium compounds?

If you are running into production snags due to uncertain deliveries or variations in quality, or if you need advice on processing procedures, or need a new form of a magnesium compound not now commercially available, it will pay you to call on Merck. Problems involving magnesium compounds are meat for our Marine Magnesium Division.

Unvarying quality, speedy delivery and helpful technical service are assured when you specify any of these Merck magnesium compounds:

MAGLITE® D, K, M, and Y
(Reactive Magnesium Oxides)
MARINCO® C
(Magnesium Carbonate, U.S.P. and Tech.)
MAGCARB™
(Special Grades of Magnesium Carbonate)
HYDRO-MAGMA®
(Magnesium Hydroxide in Water)
MARINCO® O
(Magnesium Oxide, U.S.P. and Tech.)
MAGCAL®
(Inactive Magnesium Oxide)
MARINCATE®
(Magnesium Trisilicate, U.S.P. and Tech.)
MARINCO® H
(Magnesium Hydroxide, N.F. and Tech.)

For additional information and samples write to Merck Marine Magnesium Division, Merck & Co., Inc., Rahway, N. J.

MERCK MARINE MAGNESIUM DIVISION

MERCK & CO., INC. • RAHWAY, N.J.

DISTRIBUTORS:

THE C. P. HALL CO. • G. S. ROBINS & CO., INC.

WHITTAKER, CLARK & DANIELS, INC.

DuPont Shutting Down Rayon-for-Apparel Unit

E. I. duPont de Nemours & Co. is moving out of the rayon-for-apparel business. The company plans to close its textile rayon operation at Old Hickory, Tenn., by August.

Although the move will end DuPont's rayon output for the apparel market, the company remains a major producer of high-tenacity rayon yarn for tire cord and other industrial uses. This grade is turned out at the company's Richmond, Va., rayon plant.

Most of the workers at the Old Hickory unit will be transferred to a new "Dacron" polyester filament facility newly installed at that plant. The operation will be ready started up by Wednesday (February 1), the company says.

Dixon Buys Producer

—*Continued from page 3*

on stream at Paulsboro, N. J., this summer."

While Dixon won't say, it's generally believed that the chief reason for the acquisition move is the urethane coatings business currently enjoyed by Better Finishes.

Though a large portion of the Newark, N. J. firm's $4.3 million sales is made up of chromic acid (one-third of the US total) the promising growth of resinous coatings — particularly urethanes — is attractive.

One trade estimate has it that during the last two years, the market for corrosion-resistant urethane coatings has grown eight-fold in dollar volume—from sales of $1 million in 1958 to $8 million in 1960.

And according to Myron Bryant, president of Better Finishes, the acquisition by Dixon "will provide our company with the resources to develop those areas of the fast-growing coatings and sealing industry, especially polyurethane—that offer the greatest potential."

Mr. Bryant will continue as president of BFC, with H. C. Tapper as vice-president.

Chemical Mergers

—*Continued from page 3*

the government's first anti-merger case in the basic chemical industry.

"It may well be considered as a signal of commission interest in an industry where merger activity is exceeded only by that found in the non-electrical machinery and food products industries," he commented significantly.

3 PRODUCTION POINTS
mean better service

STREATOR, ILL.
NORFOLK, VA.
PLANT CITY, FLA.

POTASSIUM SILICOFLUORIDE

Continual, uninterrupted production 12 months a year

For specifications and prices, write

KAWECKI CHEMICAL CO.
220 East 42nd Street
New York 17, N. Y.

Exclusive Sales Agents For
SMITH-DOUGLASS CO., INC.
5100 Va. Beach Blvd., Norfolk, Va.

LARGEST PRODUCER OF KSF IN THE U.S.A.

PCl3

Hooker phosphorus trichloride typically assays at 99.9% with a distillation residue of only 0.1%. There's no turbidity and no free phosphorus. A versatile and important chlorinating agent in organic synthesis. Write for data sheet.

HOOKER CHEMICAL CORPORATION
801-5 FORTY-SEVENTH STREET, NIAGARA FALLS, NEW YORK
SALES OFFICES: BUFFALO CHICAGO DETROIT LOS ANGELES NEW YORK NIAGARA FALLS PHILADELPHIA TACOMA WORCESTER, MASS.
IN CANADA: HOOKER CHEMICALS LIMITED, NORTH VANCOUVER, B. C.

HOOKER CHEMICALS PLASTICS

Phibro

INDUSTRIAL CHEMICALS

a new source for

DICYANDIAMIDE

Available for immediate delivery at all times . . . . from warehouse stocks, at attractive prices.

FOR METALS & PLATING

DEGREASING TRICHLORETHYLENE
NICKEL SULPHATE
NICKEL CHLORIDE
NICKEL CARBONATE
SODIUM CYANIDE
POTASSIUM CYANIDE
ZINC CYANIDE
COPPER CYANIDE
PERCHLORETHYLENE
CARBON TETRACHLORIDE
CADMIUM ANODES
ZINC ANODES
CHROMIC ACID
CADMIUM OXIDE
NICKEL ANODES
POTASSIUM NITRATE

In Carloads and less Carload Drums, Barrels, Bags

HOLBROOK, MASS.
BOSTON 10, MASS.
MIDDLETOWN, CONN.
PROVIDENCE 3, R. I.
PHILADELPHIA 6, PA.
BALTIMORE 1, MD.
CHICAGO 1, ILL.

Philipp Brothers Chemicals, Inc.
COLISEUM TOWER BUILDING
10 COLUMBUS CIRCLE · NEW YORK 19, N. Y. · JU 6-6020
Cable Address PHIBROCHEM NEW YORK

GULF

Molten
SULFUR

99.9% pure.
Immediate delivery.
Write or phone.

PETROCHEMICALS DEPARTMENT SALES OFFICE, GULF OIL CORPORATION
360 Lexington Avenue, New York 17, N. Y. • Quality Petrochemicals to Begin With

CLIP THIS AD TO LETTERHEAD FOR CATALOG OF SODIUM
PHOSPHATES and other Blockson Chemicals
BLOCKSON
BLOCKSON CHEMICAL COMPANY • Chemicals Division • Olin Mathieson Chemical Corporation • Joliet, Ill

Precipitated
Calcium
Carbonate
U.S.P. and Technical Grade
MISSISSIPPI LIME COMPANY
Alton, Illinois

Key Chemicals
from Wyandotte...
KEY W CHEMICALS
Caustic
Soda

Liquid grades (50% and 73%) are shipped in lined tank cars . . . anhydrous grades (solid, flake, crystal, and Flo-chilled®) in standard or open head non-returnable drums.

Wyandotte Chemicals Corporation, Michigan Alkali Division
Wyandotte, Michigan • Offices in principal cities

WYANDOTTE CHEMICALS

Drug Men Within Range But Off Bullseye

—Continued from page 3

or six weeks, two new faces will confront witnesses across the hearing table.

They will be Sen. Thomas J. Dodd, of Connecticut, and Sen. William A. Blakley, of Texas, both Democrats. They replace the late Thomas C. Hennings of Missouri, and Sen. Joseph O'Mahoney of Wyoming who retired last year.

The views of the two new subcommittee members on the investigation of the drug industry are still unknown factors. While Sen. Dodd has been a senate member since 1958 and a member of the judiciary committee, he has never publicly discussed the work of the Kefauver committee.

He has been associated with the "liberal" forces on most issues in the senate, however, and would be expected to vote with the chairman on most issues before the committee.

Sen. Blakley is a new member of the senate, having taken his seat on January 3 as the appointed replacement for Sen. Lyndon Johnson, now the Vice-President. Sen. Blakley is characterized by his associates as a "conservative" and on questions in which politics is not a factor may be expected to be found with Republicans on some issues before the subcommittee.

Other Committee Members Named

Other members of the Kefauver group are Sens. John A. Carrol of Colorado, and Philip A. Hart of Michigan, Democrats; and the following three Republicans: Sens. Everett Dirksen of Illinois, minority leader of the senate; Alexander Wiley, of Wisconsin, and Roman L. Hruska, of Nevada.

A quiet but important undercover tussle has been going on in the senate meanwhile over the matter of investigating the counterfeiting of drugs.

This was one of the subjects mentioned earlier by members of the Kefauver staff as a possible avenue of investigation by the committee this year.

But this was before a special resolution was introduced a week ago to have the investigation conducted by the senate labor and public welfare committee.

Sponsors of the resolution (S Res 42) are Sens. John M. Butler of Maryland, and Barry Goldwater, of Arizona, who is the ranking Republican member of the labor and public welfare committee.

It is not yet certain which of the two committees will make the counterfeit drug investigation, but Sens. Butler and Goldwater are making the point that the subject is certainly more germane to the functions of the labor and public welfare committee, which has jurisdiction over food and drug legislation, than it is to the activities of the antimonopoly committee.

Look to BECCO first for
Sodium Perborate
as well as
• Hydrogen Peroxide • Peracetic Acid
• Ammonium & Potassium Persulfates
• and other Peroxygen Chemicals
Write for list of free technical bulletins.
BECCO Chemical Division
Food Machinery and Chemical Corporation
161 East 42nd Street, New York 17, New York

HEXACHLOROETHANE
AMERICAN FIRSTOLINE CORP.
855 AVENUE OF THE AMERICAS
NEW YORK 1, N. Y.
Phone: OXford 5-6556
Cable Address: FIRSTOLINE, N. Y. • TWX: NY1-2765

PASCO PASCO PASCO PASCO PASCO PASCO PASCO PASCO PASCO PASCO

Producers & Marketers of Crude Sulphur
... with mining operations in Jaltipan, Veracruz, Mexico, and principal offices in Houston.
Pan American
SULPHUR COMPANY
609 BANK OF THE SOUTHWEST BUILDING HOUSTON, TEXAS

Manufacturers of
Red and Black COPPER OXIDE
COPPER SCALE
ROBERT A. COUPE, 260 Rhode Island Ave., PAWTUCKET, R. I.
Telephone PAwtucket 3-4944

PERSULPHATES
Ammonium ($(NH_4)_2S_2O_8$) Potassium ($K_2S_2O_8$)
E. M. SERGEANT PULP AND CHEMICAL CO., INC.
7 DEY STREET NEW YORK 7, N. Y.

Caustic Potash, All Grades
Copper Sulphate
Glycerine C.P., U.S.P.
Chloroform, Tech. & U.S.P.
J.F.HENRY CHEMICAL CO., Inc.
4 Station Square, Rutherford, N. J.
N. J.: WEbster 9-7100 • N.Y.: BRyant 9-7283

Petroleum Derivatives

Benzene expansions totaling 73 million gallons were disclosed last week. One petroleum company, with existing plants at Houston, Wilmington, Cal., and Wood River, Ill., has boosted capacity 34 million gallons. Slated for use in the company's synthetic rubber, polystyrene and phenol production lines, the added benzene jumps the company's capacity to 60 million pounds. In a joint venture, two other petroleum firms are building a BTX plant at Nederland, Tex., with a capacity of 18 million gallons of benzene, 25 million gallons of toluene and 13 million gallons of xylene.

Most of the benzene will be used captively to supplant purchases of material for use in the production of detergent alkylates.

Still another Houston refiner added 21 million gallons to complete the list.

These latest additions to the long list of petroleum benzene expansions increases the capacity of proposed facilities to 345 million gallons, all of which is expected to be on stream by the end of 1962.

Total capacity from all sources expected in 1962: 1,055,000,000 gallons.

Cuba: ... Republican Elections, yes, no!

That's the trend of US foreign policy as following up the embargo on shipments to Dr. Castro's Cuba, the US has issued a similar but less inclusive punitive manifesto concerning exports to Generalissimo Trujillo's Dominican Republic.

Effective January 20 individual export licenses became required for exports from the US of petroleum and petroleum products to the Dominican Republic.

The new rule supplants exports of these items under general license.

Furthermore, no applications for exports of these products will be accepted, reports Bureau of Foreign Commerce.

These restrictions are the result of the January 4 resolution of the Council of Organization of American States to suspend exports of petroleum, petroleum products, trucks and spare parts to the island nation.

Aromatic Solvents

Benzene—Hardly a week seems to go by without some announcement of increased benzene capacity.

Last week three such events were disclosed which will result in an added 73 million gallons of material.

One petroleum producer with plants located at Houston, Wilmington, Cal., and Wood River, Ill., revealed completion of expansion work which has boosted the company's capacity 34 million gallons to a total of 60 million gallons annually.

Aimed at supplying raw material to the chemical arm of the petroleum firm, the benzene will wind up in the production of synthetic rubber, polystyrene and phenol.

In another move two oils firms revealed they are teaming up to build a BTX plant at Nederland, Tex., which will yield 18 million gallons of benzene, 25 million gallons of toluene and 13 million gallons of xylene.

That's the designed capacity of the plant which is expected to be on stream before the end of the year.

Slated primarily for captive use the benzene will supplant material purchased for production of detergent alkylates.

The last announcement of the week was from a Houston refiner who upped the ante 21 million gallons.

Toluene—One producer reports that calls for toluene are not exactly inundating his office yet even at that material is still short supplied upon occasion.

Crude Oil Stocks

Domestic and foreign crude petroleum stocks at the close of the week ended Jan. 14 were 1,610,000 bbls. higher than at the end of the preceding week.

Week ended Jan. 14—239,242,000 bbls.

Preceding week—237,632,000 bbls.

This increase comprises an increase of 1,261,000 bbls. in stock of domestic crude and an increase of 349,000 bbls. of foreign crude.

(Source: Bureau of Mines)

Price Trends

Advanced

None

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
103.74	103.74	103.74	103.64

For Current Prices see page 10

Although demand for toluene for use as an octane improver is on the wane to due the trend toward lower compression engines, increased use is expected from "Hydeal" plants, conversion into phenol and other chemical uses.

Xylene—Demand for material for solvent purposes has declined along with auto production and appliance output.

Isomer demand is strong, however, with ortho and para fractions leading the way. Metaxylene is reported slow.

What is causing the boom in isomer demand is the burgeoning polyester fiber and film market, in the case of paraxylene, and the prolonged shortage of naphthalene in the case of orthoxylene.

LPG's

Production of lpg's resumed an upward surge in the last two weeks of December after faltering in the first fortnight of the month.

Total output in December 16-30 was 430,480,000 gallons, as compared with 348,095,000 gallons in the preceding two weeks and 385,126,000 gallons in the last two weeks of December 1959.

Stocks tumbled to 935,122,000 gallons on December 31 as against 1,033,207,000 gallons on December 15.

Propane was the big gainer among the gasses as production zoomed to 220.1 million gallons during the two week period as against 169.3 million gallons in the preceding fortnight.

Waxes

Export market is moving well, according to trade sources, with prices remaining strong.

Shipments to Europe, Brazil, Columbia, Ecuador and Central America are the volume leaders.

Brazil's wax refinery at Mataripe is still behind schedule due to the lack of packaging machinery. Demand is being met by imports. Earliest date for startup of the government-owned plant is now placed at March.

Break in diplomatic relations between US and Cuba following earlier economic sanctions against the Castro regime have eliminated US exports of material to that island. Supplies from Czechoslovakia and East Germany are filling the gap.

Also in the Caribbean, US exports of petroleum and petroleum products to the Dominican Republic, wax included, now require individual export licenses rather than the general license formerly employed. Rule became effective Jan. 20.

Trade sources estimate the monthly shipments to the island republic at 4-5 tons.

Bureau of Foreign Commerce reports that in general no new applications for exports to the Dominican Republic will be considered.

Restrictive action is the result of a punitive resolution passed earlier this month by the Council of the Organization of American States.

Korea is reported working off heavy inventory acquired in a volume purchase five months ago and will not be seeking material until the middle of the year according to informed sources.

In the domestic market demand continues well sustained with ample supply to meet all needs.

Prices are unchanged.

Miscellaneous

Crude oil output decreased during the week ended January 13 while crude runs to stills increased. Daily average crude output dropped 14,000 bbls. to 7,150,000 bbls. during the week. Crude runs to stills climbed to 8,342,000 bbls., or 175,000 bbls. higher than in the preceding week.

Trade Name Chemicals

Fungicides a $30 Million Market, Aside From Wood Preservatives

Excluding wood protection, industrial fungicides are estimated to form a $25 to $30 million market. The paint industry probably makes up half the total, say trade observers, with paper, textiles and adhesives following in that order. Plastics remain largely an untapped outlet due to relatively high prices of available fungicides in a cost-conscious industry. Bulk of products on the market are phenyl mercuric compounds or chlorinated phenols. Copper compounds find use where color is not a prime consideration and organic tin compounds have been studied as paint fungicides.

Both water-base and oil-base paints make use of phenyl mercuric compounds to prevent decomposition. At higher concentrations, they are effective in making paint films mildew resistant.

Some attempt has been made to use phenyl mercuric acetate in mildew proofing textiles and experimental work on plastics applications is underway.

Phenyl Mercurics in Textiles

Phenyl mercury compounds have not penetrated the textile market to any great extent. Guard Chemical Company, Ossining, N. Y., has been marketing "Puratized N-5X," a phenyl mercury derivative for application in canvas shoes for several years.

However, the principal compounds used in textiles are copper and zinc naphthenates, copper-8-quinolinolate and various quaternary ammoniums.

In this outlet copper naphthenate has the lion's share of the market, which is largely for mildew-proofing of canvas products for boats, tents, awnings and tarpaulins.

A strictly specialty application, but an increasingly lucrative one for fungicide makers, has been in the treatment of putting greens on golf courses.

It is estimated that a large private club, with several courses to maintain, may spend $15,000 to $18,000 a year on fungicides. It's considered good business since it takes an average five years to rebuild a green once a growth of "brown patch" or "dollar spot" gets a firm foothold.

Edward P. Brady, director of golf for New York City's Department of Parks, estimates it costs $850 per year per eighteen-hole course to keep the city's golf enthusiasts on the green. The parks department operates 10 full-length golf courses and one pitch-pull course.

The city has been using "Thiram," supplied by W. A. Cleary Corporation, New Brunswick, N. J., for the past three or four years with good results, Mr. Brady says.

"Thiram" is a tetramethylthiuram disulfide (75 percent)—phenyl mercuric acetate (3 percent) product. E. I. duPont de Nemours & Co. manufactures "Tersan OM," also tetramethylthiuram disulfide plus a phenyl mercuric salt for turf treatment.

Mallinckrodt Chemical Works manufactures inorganic mercury and cadmium compounds as well as organic fungicides for control of turf diseases. Company tradenames for these compounds include "Cadminate," "Calo-Chlor," "Calocure," "Kromad" and "Auragreen."

Paint Industry Fungicides

Wood Ridge Chemical Corporation, Wood Ridge, N.J., markets a number of phenol mercuric compounds as industrial fungicides. For the paint industry, "Mersolate-8" (phenyl mercuric acetate) is offered as a fungicide for either oil-based paints or water-based latex emulsion systems. Also for the paint industry: "Mersolite-90" (phenyl mercuric borate) and a phenyl mercuric oleate product for oil-based alkyds.

The company services the paper industry with phenyl mercuric acetate and phenyl mercuric dimethyl dithiocarbamate slime control agents. The materials are available through sales agent, R. T. Vanderbilt Company, under the "Merfenelope" trade name. Also available in solution form is an acetoxy mercuric derivative of methyl ethyl ether with 10 percent active ingredient.

These slime control agents are marketed in a water-soluble, polyvinyl alcohol package which is added directly to the pulp vats. This provides paper makers with a handier tool for premeasuring dosages and eases handling of the toxic phenyl mercuric salts.

Dialdehyde Starch: In for a New Use

Dialdehyde starch is coming in for a new use.

Chemists tinkering around in the Department of Agriculture have reported using the material to make experimental protective and decorative coatings for glass, metal and wood.

The best of the starch derivatives form a coating on glass that provides high resistance to boiling water for as much as ten hours, say chemists at USDA's Agricultural Research Service at Peoria, Ill.

The coating, it is reported, also remains undamaged for as long as ten hours. After long immersion in acetone, dilute sulfuric acid or ethyl alcohol, it also is reported to be undamaged.

Another area of interest to Wood Ridge is the adhesives industry. In this market, the company offers "Mersolite P" (2 percent phenyl mercuric acetate in bentonite clay) for industrial use where adhesives are applied mechanically.

Another company with a longstanding interest in industrial fungicides is Nuodex Products Company, a division of Heyden Newport Chemical Corporation.

Nuodex came out last fall with Fungitrol 11," a product developed primarily for use in fortifying paints against mildew attack in food processing plants. Chemically, N-(trichloromethylthio) phthalimide, the product is described as a non-toxic, powdered organic microbicide for use in non-aqueous paint systems.

Nuodex Has New End-Use

Recently, Nuodex reported the product has been evaluated for use in extruded and calendered vinyl plastics. Fungicide concentration can be cut in half using the product, Nuodex says, and still maintain a higher level of activity than fungicides currently available.

Although large volume wood treatment of utility poles and railroad ties is the province of such materials as creosote and pentachlorophenol, copper or zinc naphthenates and copper-8-quinolinolate enjoy a good market in the food-handling industry for treatment of picking boxes, field bins, hampers, pallets and other harvesting equipment.

Products such as "Cellu-san," "Celluquin," and "Cellu-pel" (Darworth, Inc., Simsbury, Conn.) are all wood preservatives which are water repellent and can be used in contact with foods since they meet all Food and Drug Administration requirements concerning residual amounts. These compounds may be applied by dip, brush or spray methods.

The company also markets several formulations of "Cuprinol," a general purpose wood preservative for greenhouses, sash and door treatment and for preserving holds in fishing boats.

News Briefs

• **Allied Chemical Corporation** is using a new type of polyethylene pipe at its Tralee, W. Va., bituminous coal mine. To date, 21,000 feet of two-inch linear polyethylene pipe have been installed for air and water lines in the mine with an estimated saving of 5.5 percent in material costs, the company says.

• **Oakite Products, Inc.**, has issued a service bulletin describing "Oakite RR Cleaner." The product is described as a strongly alkaline cleaner originally designed to remove burned-on oil, heavy grease and dirt from railroad equipment. More information on this heavy duty detergent is available in Service Bulletin 17R, from Oakite Products, Inc., 157 Rector Street, New York 6.

ORGANIC PEROXIDES

LUPERSOL® KDB
Di-t-BUTYL DIPERPHTHALATE
in Dibutyl Phthalate

FORM—*Liquid* PEROXIDE ASSAY—*50%*

USE— Catalyst for intermediate and high temperature curing of polyester resins.

LUCIDOL DIVISION

WALLACE & TIERNAN INC.
1740 MILITARY ROAD, BUFFALO 5, NEW YORK

MP
STARCHES
and
GUMS

...specialty products for thickening • emulsifying • stabilizing • binding

STARCH products

Potato
Tapioca
Arrowroot
Sago

Native, thick-boiling
Oxidized, etherified, thin-boiling and other modifications
Dextrines—yellow and white
Pregelatinized starches

water-soluble GUMS

Agar Agar
Guar Gum
Gum Arabic
Gum Ghatti

Gum Karaya
Gum Tragacanth
Irish Moss
Locust Bean Gum
Okra Gum

When thickening, emulsifying, stabilizing or binding is needed in your process or product, starches or gums are your best buy. Morningstar-Paisley supplies a *complete* line of these specialty items—in fact, M-P has solved so many problems involving gums or starches for oil, paint, drug and food manufacturers that we probably *already* have a formulation to fit your requirements.

Let us know what specific physical properties . . . viscosity, thickening power, clarity, stability, etc. . . . are critical in your operations. You'll hear from us *promptly*.

In New York City, 630 W. 51st St., phone JUdson 2-3790. In Chicago, 1770 Canalport Ave., phone CAnal 6-2219.

MORNINGSTAR-PAISLEY INC.
Adhesives / Starches / Gums / Specialty Chemicals

Offices in 28 principal cities from coast-to-coast. In Canada: Morningstar-Paisley of Canada, Ltd., Toronto

Aliphatic Organics

The downtrend in prices, which gained momentum in the fourth quarter last year, may be over. As one trade source sees it, the reductions were an immediate response to the initial shock of the recession—which no one foresaw in the opening days of the "soaring sixties"—and chemical producers are now determined to hold the line. This may take some doing, of course. Excess capacity is a per-

sistent threat to the stability of several markets, as are imports and plant expansions. And for chemicals sold primarily on contract, negotiations sometimes stir up "price" trouble. To a certain extent, this was the year-end situation, it's understood.

New methanol and formaldehyde facilities on the west coast, brought on stream a week ago, will likely make the local market more competitive. Particularly as methanol is used primarily in the manufacture of formaldehyde and formaldehyde in the manufacture of resins for particle board and plywood adhesives, which are, in turn, the largest west coast outlets. And the plywood industry, unfortunately, has been having more downs than ups.

To create stability, producers have curtailed output—in some instances to 60-70 percent of capacity—and boosted and lowered prices in successive stages. For a while last year the price of a key grade, quarter-inch sanded fir plywood, was up to $68 a thousand square feet, above the 1960 low of $60 but below the $72 high, but recently a $4 cut was made by major producers.

More methanol capacity will be available by the end of '61 when the largest producer of the chemical completes an expansion program that will boost its overall capacity 35 percent. Anticipated large requirements for "Delrin" acetal resin may be indicated.

Price Trends

Advanced
Molasses, N.Y., 1c. per gal.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
130.51	130.50	130.58	132.80

For Current Prices see Page 10

Butyl Acetate—November exports of butyl acetate totaled 1,873,496 pounds and were valued at $246,456, according to the Foreign Trade & Economics Operations Division of the Bureau of Census, US Department of Commerce.

Large quantities of the solvent were purchased by: Belgium, 1,104,719 pounds at $147,888; Sweden 448,867 pounds at $50,041; Mexico 131,998 pounds at $18,774; and Colombia 98,880 pounds at $16,188.

Butyl Alcohol—The USSR was a major buyer of US-manufactured butanol in November, taking a reported 1,763,696 pounds at $229,280. The month before the Reds purchased 1,568.595 pounds.

Total outshipment of butanol in November was 8,387,252 pounds, valued at $1,084,267. Besides the USSR, other large lot buyers were: Belgium 3,707,512 pounds at $496,322; Italy 1,871,222 pounds at $224.541; and Sweden 646,990 pounds at $72,636.

In all, 15 countries made purchases.

Carbon Tetrachloride—Boding well for consumption of carbon tet in the manufacture of propellents is the continued rise in sales of aerosol products. In 1960, an estimated 700 million units were turned out (market value: $750 million) in the US and Canada, according to the Chemical Specialities Manufacturers Association. This compares with 575 million units in 1959.

Continued growth of the aerosol market at an annual rate of 20 percent (the rate over the past five years) is looked for by trade sources as a result of the greater number of products being packaged this way and the overwhelming acceptance of those already on the market.

The largest selling aerosols are hair sprays, shaving creams, insecticides and room deodorants but becoming more and more popular with the consumer are such things as paints, colognes and perfumes, and pharmaceuticals. And of late, sales of a windshield wiping spray are probably going great.

Stronger demand for carbon tet overseas is apparent from trade statistics for November. Exports that month were 586,916 pounds, valued at $72,776. Mexico purchased 424,370 pounds at $58,990 and Argentina was in for $140,000 at $10,332. Other buyers were the Bahamas, Kuwait, Pakistan, Venezuela, Brazil and Greece.

Imports in November were 371,698 pounds, valued at $21,362 and dutied at $3,160. Belgium shipped 272,698 pounds, valued at $15,585 and dutied at $2,318, while Italy took care of the remainder.

Italy also supplied 7,160,268 pounds of another chlorinated solvent, tetrachloroethane. This material was valued at $298,526 and dutied at $44,779.

Dimethyl Sulfoxide—Beginning this issue, a schedule for dimethyl sulfoxide will be carried in OPD's Prices Current.

Current listings, f.o.b. works: tankcars, 33c. a pound; carload, 35c. a pound; 4 or more drums (net 500 pounds), 37c. a pound; 1 to 3 drums, 38c. a pound.

Ethyl Alcohol—No ethyl alcohol was imported in November, according to Commerce department trade statistics. This may be significant in light of the fact that imports for the first ten months of the calendar year totaled 19,264,731 gallons. This material originated in Brazil and Peru for the most part; the biggest percentage was brought in at Galveston, Texas.

Normally, little alcohol is imported here; however, since last November, large quantities have been brought in monthly, a trend which some trade observers predicted would stop as soon as ethylene capacity was sufficient to fill all requirements. It's believed that the foreign alcohol was used as an intermediate in the manufacture of derivative chemicals and not offered "as such."

Exports of ethyl alcohol in November were relatively large at 316,161 gallons. The October shipment was a mere 350 gallons and nothing was exported in September.

Valued at $382,347, November exports went to: Italy 314,287 gallons, valued at $380,483; New Zealand 1,104 gallons, valued at $900; Cambodia 400 gallons, valued at $484; and Jamaica 370 gallons, at $480.

Molasses—For the first ten months of 1960, molasses imports totaled 404,307,377 gallons. This compared with 245,791,707 gallons in the like period of 1959.

Both years, Cuba was the major source of supply. Last year, its ten-month shipment amounted to 213,794,416, up from 75,253,890 gallons in '59.

Mexico was the second largest supplier, accounting for 58,874,926 gallons in the January-October period of '60, and 53,998,573 gallons the year before.

Others on the roster, in order of their importance were: Dominican Republic,

Aliphatics Foreign Trade: November

Exports of selected industrial aliphatic organics for the months of October and November, 1960, as reported by the Bureau of Census, were as follows:

		November	October
Acetone	lbs.	795,020	738,324
Alcohols, including, glycols, n.e.c.	lbs.	13,694,253	10,856,100
Butyl acetate	lbs.	1,873,496	2,709,853
Butyl alcohol	lbs.	8,387,252	9,388,905
Carbon Bisulfide	lbs.	242,706	320,800
Carbon Tetrachloride	lbs.	586,916	25,804
Ethyl alcohol	gals.	316,161	350
Ethylene Glycol	lbs.	4,730,134	6,756,360
Formaldehyde, 40 percent solution	lbs.	242,293	1,007,125
Glycerine, crude and refined	lbs.	831,924	782,378
Methyl alcohol	gals.	2,339,092	2,555,376
Propyl alcohol	lbs.	373,237	501,544

Aliphatic Organics

Jamaica, Philippine Republic, Taiwan, Turkey, and France.

Markets for feeding cane molasses were steady throughout the nation during the week ended January 17. Demand, Agricultural Marketing Service said, was slow to moderate and generally slower than the preceding week.

New Orleans port prices were unchanged at mostly 13c. a gallon. However, in the northeast states, blackstrap prices were as much as 1c. a gallon higher, with the advances posted at New York, Boston and Albany.

Monochloroacetic Acid—An estimated 12 million pounds of monochloroacetic acid were brought in during 1960 and at this rate November imports were above the monthly average. Volume, as reported by the Commerce department, was 1,131,716 pounds. the value $174,998, and the duty $14,145.

Shipping to the US were: France 562,777 pounds, valued at $92,408 and dutied at $7,305; West Germany 404,439 pounds, valued at $56,719 and dutied at $5,055; The Netherlands 124,500 pounds, valued at $19,224 and valued at $1,555; and Canada 40,000 pounds, valued at $6,647 and dutied at $500.

An OPD market study (1/16/61) revealed that demand for the acid is likely to hit 77 million pounds by 1965 from the present estimated level of 60.6 million. But at the same time the import threat looms bigger and bigger.

In 1954, according to OPD researchers, imports accounted for 0.24 percent of total visible supply. This compares with a possible 23 percent in 1960.

It was found that domestic production rose about 3.3 percent a year since 1954—taking into account years when output declined—while imports have been steadily upward at a rate of 52 percent per annum.

Vinyl Acetate Monomer — Imports of monomer in November totaled 3,273,000 pounds. The value was $522,119, the duty $73,543, as reported by the Commerce department.

Shipping monomer here were Canada (3,272,280 pounds, valued at $521,036 and dutied at $73,466) and West Germany.

The same month, imports of the polymer amounted to 130,073 pounds, carrying a value of $79,110 and a duty of $6,568. Suppliers were: Canada 72,326 pounds, valued at $51,567 and dutied at $4,125; Japan 47,500 pounds, valued at $23,952 and dutied at $2,090; and West Germany 10,247 pounds, valued at $3,591 and dutied at $353.

Current tankcar price on vinyl acetate monomer is 15.6c. a pound delivered in zone 1, 1 cent higher in zone 2. This schedule was set up late last summer by a reduction of 1.9c. a pound, precipitated, it was said in some quarters, by imports from Canada. Needless to say, there were conflicting views on this point.

Industrial Biochemicals Establishes Offices and Facilities in Edison, N. J.

Industrial Biochemicals, Inc., has established its offices as well as research and production facilities in the Edison Industrial Center, Edison, N.J.

The company's pilot plant and production equipment will be used for confidential custom manufacture of fermentation chemicals, and the technical staff will participate in contract development of process and equipment design for the fermentation industry.

The company's immediate plans call for the introduction of a series of specialty biochemical products utilizing fermentation technics.

OPD Reports from Europe

Chemical Cost-Price Squeeze in Europe

—*Continued from page 5*

pany, Ltd., also has cut by 7.5 percent the price for all grades of acetic acid. Distillers is building a $5.6 million acetic acid plant to start production next year at Hull.

The facility makes use of a one-stage oxidation process using light petroleum fractions, instead of the current two-stage process starting with ethyl alcohol.

Price competition has been particularly keen in thermoplastics, especially in high- and low-density polyethylene and polypropylene. From an introductory price of a little over 52 cents a pound for polypropylene last May, ICI has reduced the price to 42 cents a pound effective the first of the year.

ICI to Double Polypropylene Capacity

ICI is now producing polypropylene at an 11,000-ton-a-year plant, and company officials indicate preliminary planning for a doubling of this capacity has started.

Shell has announced a price of 43 cents a pound for polypropylene, though its plant will not be in full operation for several months.

Shell also has cut its high-density polyethylene to 35 cents or 36 cents a pound, depending on grade, from an earlier price of a little over 37 cents a pound.

Using low-density polyethylene imported from the joint Shell-Badische Anilin & Soda Fabrik plant in Germany, Shell is introducing that plastic at a price equal to ICI's 25½ cents a pound.

Shell has a 30,000-ton-a-year plant for high- and low-density polyethylene and polypropylene scheduled to come into operation this year.

It is understood that Shell and ICI are protected by their Montecatini polypropylene licenses from import competition.

Import Competition from US

But it is no secret in the UK industry that last fall's cuts in high-density and low-density polyethylene were set off by import competition — primarily from American producers — and the current prices are reported to be largely determined by that competition.

But expansion of polyethylene capacity in Britain continues with Monsanto Chemicals, Ltd., reporting plans to expand by 50 percent its present annual capacity of 17,000 tons at Fawley. This is the second expansion at Fawley as the plant started operating in 1959 with a 10,000-ton capacity.

This expansion will give Britain a total polyethylene capacity of over 150,000 tons a year by 1962. ICI's present capacity is 105,000 tons yearly, and the other producers in addition to Shell and Monsanto are Union Carbide and British Hydrocarbon Chemicals, a joint venture of Distillers Chemical and British Petroleum.

This polyethylene capacity is certainly well in excess of domestic consumption, which is estimated to have been over 100,000 tons last year.

In general, total British plastics sales rose only 9.3 percent last year to an estimated 547,000 tons total—against a 20 percent increase in 1959 to 500,000 tons.

The slowdown is attributed to a recession in consumer durable and appliance sales due to the British credit squeeze.

In other British plastics developments, ICI has announced a $2.8 million expansion of its "Perspex" (polymethyl methacrylate) capacity to 20,000 tons a year from 17,000 tons, and the company says further expansion is planned. About 45 percent of the output of this plastic is exported.

ICI recently sold a license on its know-how in this plastic to American Cyanamid Company, for what London financial sources report was a "considerable sum," even though the ICI patents in this plastic have expired (OPD, 1/9/61).

Armour Goes Deeper

—*Continued from page 7*

Armour Agricultural Chemical Company, and the present staff will be retained.

Alfred C. Stepan, jr., president of Stepan Chemical, says that his company plans to use the proceeds of the sale for a new venture in an unrelated field—the manufacturere of gasoline additives (see article page 5).

The purchase price of Ris-Van was not disclosed.

Ris-Van is said to be a pioneer supplier of complete fertilizers in liquid form. Dr. John L. Strauss, former Purdue University agronomist and a vice-president of Ris-Van, was reportedly one of the early developers of liquid fertilizers and has directed the scientific work of the company. He and other key management personnel will join Armour Agricultural Chemical Company.

Continuing in the management of Ris-Van will be Kenneth Van Duzer, president; M. B. Hawke, sales manager and secretary, and Roy E. Carwell, treasurer.

Armour recently announced a $60 million expansion program, which includes new facilities for production of high analysis fertilizer materials. These facilities will be used to provide Ris-Van with a more complete line of basic materials for its operations, Armour reports.

Only Procter & Gamble supplies GLYCERINE from 9 plants across America!

Producing a steadily increasing supply of natural GLYCERINE to fill your needs.

FOR INFORMATION WRITE:
Procter & Gamble, Cincinnati 1, Ohio
or 640 Fifth Avenue, N. Y. 19, N. Y.

LEVER BROTHERS COMPANY
Producers and Refiners of
NATURAL GLYCERINE
390 Park Avenue New York 22, N. Y.

RANEY CATALYST CO., INC.
Originators and Dependable Suppliers of
RANEY CATALYSTS
1322 Hamilton National Bank Bldg.
Chattanooga 2, Tenn.
Since 1925 Phone: Amherst 6-8616, Taylor 1-7823 Cable Address: RANI

PUBLICKER INDUSTRIES Inc.
One of the world's largest producers of alcohol and solvents
1429 WALNUT STREET, PHILADELPHIA 2, PA. • LOcust 4-1400

OPD REPRINTS
35¢ A COPY
Monochloroacetic Acid
Vinyl Chloride
Methanol
Methylamines
Acetone
Butadiene
OIL, PAINT AND DRUG REPORTER
Reprint Department
30 Church Street, New York 7, N. Y.

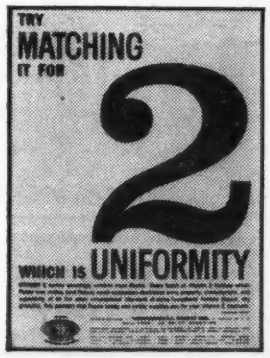
Look to BECCO first for
Peracetic Acid
as well as
• Hydrogen Peroxide • Sodium Perborate
• Ammonium & Potassium Persulfates
• and other Peroxygen Chemicals
Write for list of free technical bulletins.
BECCO Chemical Division
Food Machinery and Chemical Corporation
161 East 42nd Street, New York 17 New York

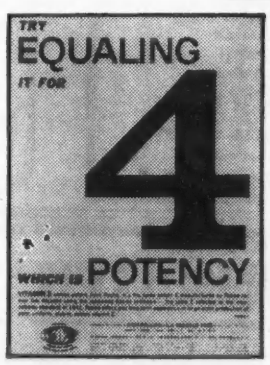
CHLORINATED SOLVENTS
Perchlorethylene • Methylene Chloride
Trichlorethylene • Carbon Tetrachloride
IMPORTED FROM WESTERN EUROPE • BULK STOCKS AT ELIZABETH, N. J.
INTERNATIONAL PETROSOLVENTS, INC.
390 Park Avenue, New York 22, N.Y.
Tel: PLaza 2-2260

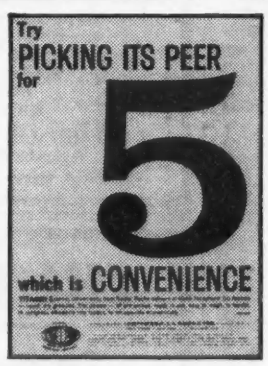
Carbon Disulfide Derivatives

WOOD RIDGE CHEMICAL CORPORATION
50 PARK PLACE EAST, WOOD-RIDGE, NEW JERSEY
WEbster 9-4600 (N. J.) CHickering 4-7892 (N. Y.)
Successor to F. W. Berk & Company, Inc.

ROCHE
VITAMIN E
adds up to







Every Excellence Expected... Right from ROCHE

ROCHE® © 1960 HLR INC.

VITAMIN E
ROUND THE WORLD COMES RIGHT FROM ROCHE

FINE CHEMICALS DIVISION • **HOFFMANN-LA ROCHE INC** • NUTLEY 10, N. J.
NORTH 7-5000 • NEW YORK CITY: OXFORD 5-1400
IN CANADA: HOFFMANN - LA ROCHE LTD., 1956 BOURDON STREET, ST. LAURENT, MONTREAL 9, P. Q.
AFFILIATED COMPANIES: BASEL • BOGOTA • BOMBAY • BRUSSELS • BUENOS AIRES • GRENZACH (GERMANY)
ISTANBUL • JOHANNESBURG • LONDON • MADRID • MEXICO CITY • MILAN • MONTEVIDEO
PARIS • RIO DE JANEIRO • STOCKHOLM • SYDNEY • TOKYO • VIENNA • AGENCIES IN OTHER COUNTRIES

Drugs, Fine Chemicals

Brazilian menthol, only recently selling at $9 a pound, is now quoted at anywhere from $8 to $8.25 a pound, the large crystals, as usual, commanding a slight premium. Quality and quantity differences as well as the nature of the supplier's business (direct importer, distributor, dealer) probably explain the wide range of prices reported by trade sources last week. Causing the drop: seasonally poor demand, expected arrival of new crop from Brazil, and the increasing quantities of Formosan menthol coming in. In fact, in both October and November, Taiwan was the principal source of supply.

A major drug manufacturer has introduced "Cosa-Terrastatin" capsules and oral suspension. For adult and pediatric use, both formulations contain, but in varying amounts: oxytetracycline for broad-spectrum antibiotic therapy; nystatin, an antifungal for protection against possible monilial superinfection; and glucosamine hydrochloride, a natural substance which substantially increases absorption of "Terramycin" to provide higher, faster, and more consistent blood levels.

"Cosa-Terrastatin" is supplied as a 250 mg yellow and pink capsule in bottles of 50 and in a 2 oz. bottle containing a dry, cherry-flavored mixture. It is a prescription product.

"Sycotrol," a new, so-called antiphobic agent, may prove beneficial to persons "sick with fear." Writing in Medical Times, Dr. Harry S. Friedlander of New York cites histories of eight patients whose illnesses varied from apparent heart disease to diarrhea, all the result of anxieties and tensions, who were treated with pipethanate hydrochloride ("Sycotrol"). In every case symptoms of physical illness disappeared after no more than five weeks of therapy, he found.

Dr. Friedlander noted, however, that the drug is neither tranquilizer nor sedative but is regarded in this type therapy as "supplementary and supportive to psychic reassurance."

Aspirin—Retail sales of aspirin are going great, reportedly, the result of the very cold weather and the incidence of flu and "viruses." Bulk producers of the chemical also note sales gains, though this segment of the trade usually doesn't get the full effect of a retail boom until several weeks later.

Prices are unchanged and with appreciably more productive capacity available this season than last, there's unlikely to be much of a supply pinch.

Caffeine—November saw imports of caffeine, a decided factor in markets here, rise to 161,684 pounds from 64,281 pounds the preceding month.

Valued at $320,895 and dutied at $82,456, the November quantity represented shipments from: West Germany 88,434 pounds, valued at $137,439 and dutied at $45,099; The Netherlands 42,250 pounds, valued at $106,797 and dutied at $21,547; France 20,000 ounces, valued at $49,049 and dutied at $10,200; and Switzerland 11,000 ounces, valued at $27,610 and dutied at $5,610.

Demand reportedly is well maintained from both beverage and pharmaceutical consumers. Adequate supplies are indicated.

Monosodium Glutamate—Prices are unchanged and no action is anticipated immediately. Later this year, however, a reduction could be possible, some trade observers feel. The thinking is that the additional productive capacity available at that time—provided, of course, that a leading domestic maker of MSG completes its expansion program—might lead to a price cut with the intent to broaden the market. Current US consumption of the food-flavor enhancing chemical is estimated to be in the neighborhood of 20 million pounds annually.

Neomycin — Trade reports indicate strong demand for this antibiotic used in topical and opthalmic applications. And while unestimable in terms of sales, the fact that a deodorant is being advertised nationally as "containing neomycin" should spur interest and research into other cosmetic areas, observers report.

Since September, when prices were dropped 5c. to 7c. a gram, the market has been quite stable.

Quinidine—Imports of quinidine and salts in November totaled 61,158 ounces and were valued, according to the Commerce department, at $44,029. Shipments arrived from West Germany (40,576 ounces, valued at $30,111) and The Netherlands (the remainder).

Current stability of this market is unlikely to be adversely effected when General Services Administration begins to unload 453,000 ounces of quinidine that have been found excess to national stockpile requirements.

Unsuccessful at pulling off its quinine sale despite many attempts, the agency has been careful in this instance to outline a disposal plan that won't have repercussions in the normal day-to-day market. It says it will offer no more than 100,000 ounces of quinidine at any one time and will space these offerings at six-month intervals. In addition, to encourage small firms to participate in the sale, it will allow bids on as little as 1,000 ounces.

Quinine—November imports of salts and alkaloids derived from cinchona bark —a Census bureau basket category which includes quinine sulfate—totaled 111,374 ounces, valued at $38,872.

Shipping here were: West Germany 68,082 ounces, valued at $17,848; The Netherlands 40,292 ounces, valued at $20,349; and the United Kingdom 3,000 ounces, valued at $675.

US exports the same month amounted to 750 ounces of quinine sulfate and hydrochloride (for medicinal use). This material was valued at $710.

The domestic market for quinine salts is reasonably firm at the higher schedules posted by dealers here in mid-December, following notification of price advances from their European suppliers. Currently quoted: quinine alkaloid, 37½c. an ounce; quinine sulfate, 31½c. an ounce; quinine bisulfate, 28c. an ounce; and quinine hydrochloride, 36½c. an ounce. (All prices apply to 1,000-ounce lots.)

General Services Administration is expected to announce a sale of stockpiled quinine, long ago declared excess to defense needs, within a few weeks.

Vitamin B_{12}—Exports of B_{12} in November were worth $47,210, the Commerce department reports. Based on value, the largest shipments went to Bermuda, $16,221; Canada, $15,090; Belgium, $5,500; Philippine Republic, $2,398; and Japan, $2,025. Volume is not reported of course.

Statistics on production of B_{12}, not normally available, were recently reported by the Business & Defense Services Administration. BDSA says that output of all grades of the vitamin totaled 938 pounds in 1959, a 10 percent increase over 1958 output of 848 pounds.

Producers' sales of B_{12} in '59 amounted to 729 pounds for a return of $15.9 million. Exports were valued at $3.1 million, and in the first seven months of 1960 at $915,000.

Pressure from low-priced imports has brought about several reductions on the domestic product, and this may result in widespread usage, BDSA enthuses.

An ingredient in many multivitamin preparations, B_{12} is used in treating pernicious and other anemias, and is reportedly beneficial in treating growth retardation in children, animals and poultry.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
59.27	59.27	59.27	60.22

For Current Prices see Page 10

Botanicals

Although inquiry is generally routine, demand is active for such market mainstays as lobelia herb, chamomile flowers, ipecac root, peppermint leaves (imported), psyllium, senega and witch hazel leaves Price stability is fairly prevalent.

Arabic Gum—Spot price on amber sorts last week was unchanged at a range

PEDER DEVOLD

PEDER DEVOLD
FINEST MEDICINAL
COD LIVER OIL N.F.
All Potencies Vitamin Tested

DEVOLKOD® VITAMIN OILS
(Fortified Cod Liver Oils
for Veterinary Use)

DEVOLD VITAMIN A & D
FEEDING OILS

DEVOLD VITAMIN A OILS
ABOVE OILS ARE "STABILIZED"

DEVOLKOD NON-DEST.
COD LIVER OIL N.F.

PEDER DEVOLD WHEAT GERM OIL

PEDER DEVOLD SAFFLOWER OIL

P.D.®

PEDER DEVOLD OIL COMPANY
division of
CHAS. L. HUISKING & CO., Inc.
417 Fifth Ave., New York 16, N. Y., Phone: ORegon 9-8400, Cables: Vitamine, N. Y.
Plant & Warehouse: Lyndhurst, N. J. Chicago Office: 435 N. Michigan Ave.

ARAPAHOE
TRADE-MARK

1,2-DIMETHOXYETHANE

(Ethylene Glycol Dimethyl Ether)
Anhydrous!

From stock in 5 gal. drums and in 1 and 5 lb. bottles. Miscible with both hydocarbon and water, *Dimethoxyethane* is unusually versatile: e.g. used for determining halogens in gasoline; as a general reaction medium; solvent for recrystallizations; spectrophotometric solvent; substitute for ethyl ether in certain applications.

Write to our Dept. "C" for Technical Data Sheet

ALSO AVAILABLE:

We specialize in producing organic compounds, intermediates (used in making hormones, vitamins, etc.) and semi-finished drugs, insecticides and pesticides on a volume basis. Don't spend for plant until you are sure. Let us solve your intermediate scale production problems for you.

Sales Agents in N. Y. C., Chicago, San Francisco, Basle, Mexico City, Rotterdam, Milan, London, Copenhagen, Seine, and Sidney.

ARAPAHOE CHEMICALS, INC.
2855 WALNUT • BOULDER, COLORADO
PRODUCERS OF FINE ORGANIC CHEMICALS

Pharmaceutical Intermediates

gamma-Diethylaminopropyl Chloride Hydrochloride (DEPC)
beta-Diethylaminoethyl Chloride Hydrochloride (DEC)
beta-Diisopropylaminoethyl Chloride Hydrochloride (DIC)
beta-Dimethylaminoethyl Chloride Hydrochloride (DMC)
beta-Dimethylaminoisopropyl Chloride Hydrochloride (DMIC)
gamma-Dimethylaminopropyl Chloride Hydrochloride (DMPC)
gamma-Dimethylamino-beta-methylpropyl Chloride Hydrochloride (DMMPC)

For use in synthesis of Antispasmodics
• Antimalarials • Tranquilizers • Antihistamines
• Analgesics • Cholesterol Biosynthesis Inhibitors

Available in 1 lb. bottles, 5, 10, and 100 lb. drums.
Write or phone for additional data and prices.

For fast, dependable service call

MICHIGAN CHEMICAL CORPORATION
Saint Louis, Michigan. Phone 4511 • New York 17: 230 Park Avenue. MU 3-5480

C-61-1

VITAMIN D-2 and D-3
Stable to Minerals and Oxidation
Calciferol
Crystalline D_3 Crystalline D_3 Compound
Oil & Water Miscible (Mineral) Stable Powders
Dihydrotachysterol

PURE VEGETABLE EXTRACT COLORS
YELLOW — RED — ORANGE

BOWMAN YEAST PRODUCTS
Hickory Smoked Yeast
Primary (Torulopsis utilis) Brewers' (Sacchromyces cerevisiae)
Powders — Flakes — Extracts — Concentrates — Hydrolysates
Vitab® B-Complex Extract

SPECIALITIES
CHLOROPHYLL CAROTENE
PHYTOL XANTHOPHYLL
ANTI-OXIDANT (BHT)
ENZYMATIC SYSTEMS
PROTEIN DERIVATIVES

CHARLES BOWMAN & COMPANY

220 East 42nd Street, New York 17, N. Y.
600 Southh Michigan Avenue, Chicago 5, Ill.
130 Central Avenue, Holland, Mich.
3030 Hines Avenue, Culver City, Calif.
Chorney Chemical Co., Montreal, Canada

Drugs, Fine Chemicals

of 21c. to 23c. a pound. The powder was selling at 27c. to 30c. a pound.

Moderate to good inquiry was reported by several trade sources.

New crop will be arriving here in a few months.

Copaiba Balsam—Although the high of the price range is still $1.10, the low has been climbing, arriving last week at 82c. a pound. Good demand, about adequate stocks are indicated.

Deertongue Leaves—Current quote is 50c. to 60c. a pound, the low of the range about 5 cents below the earlier level. Modest demands are reported.

Lobelia Herb—Lobelia is an annual herb which grows in meadows and open woods in the eastern part of the United States and Canada. It is also cultivated with most of the crop coming from Massachusetts, New York and Michigan.

The dried leaves and tops of the plant are used as sources for drugs which ultimately get into preparations for the treatment of asthma and chronic bronchitis.

Lobelia is presently listed at 95c. to $1.10 a pound.

FDA Rules for Additives

—Continued from page 4

specified in the regulation, it may be listed for such use.

Petitions also must submit satisfactory methods for detecting and measuring the color in the products in which it would be used.

The regulations further provide that a safety factor of 100 would ordinarily be used in applying animal experimentation data to man, unless use of a different factor is supported by the data submitted; and would provide for taking into account any probable additive effect of the toxicity of the color with that of other related colors or with food additives or pesticides which may also be present in foods.

Where the data submitted do not establish safety for all uses of the color proposed, this new color law allows FDA to make allocations among competing needs.

Provision is made for referral to an advisory committee, either by industry request or on FDA's own initiative, of data which in the opinion of the Commissioner of Food and Drugs establish that the color additive is a cancer-producing agent which could not be permitted in any amount under the anti-cancer clause of the law.

Atlas Tells Secret

—Continued from page 3

of the two companies had signed a memorandum of intent to merge.

Earlier, when rumors of a major acquisition had Wall Street abuzz and the Atlas stock jumping, company officials only confirmed merger talks but withheld the name of the company and its line of business (OPD 1/23/61).

Stuart, organized in 1941, produces ethical drugs and markets them throughout the US. Under the merger, the drug company would be operated as a division of Atlas, staffed and directed by its present management and personnel.

Arthur Hanisch, president of Stuart, is expected to be elected a vice-president and director of the parent company. As such, he has agreed to continue the active direction of the Stuart division.

NOW OVER **18,000** BIOS CHEMICALS

- BARIUM PLATINOCYANIDE
- BARIUM PLATINONITRITE
- BARIUM TITANATE
- BEHENOLIC ACID
- BENZENEAZOSALICYLIC ACID
- BENZENEHYDROXAMIC ACID
- BENZENESULFINIC ACID
- 2-BENZIMIDAZOLE
- BENZODIOXANE
- BENZOFURAN
- BENZOPHENONE CHLORIDE
- BENZOPHENOXIME
- BENZOPINACOL
- BENZOTHIAZOLE
- BENZOYLARGININE
- BENZOYLLEUCYLGLYCINE
- ω-BENZOYLLYSINE
- BENZYLDIETHYLAMINE
- BENZYLHYDROXYLAMINE
- BENZYLPHENYLHYDROXYLAMINE

Ask for our new complete catalogue.

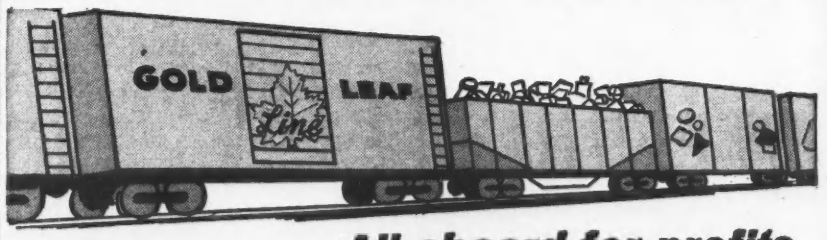
BIOS Laboratories, Inc.
17 West 60th St. New York 23 New York
PLaza 7-8171

NEPERA

PIONEERS IN PYRIDINE CHEMISTRY
also supply a growing group of pharmaceutical companies whose products require vasoconstrictors or bronchial dilators with

PHENYLPROPANOLAMINE HCl

This Nepera compound combines long-lasting activity with a gratifyingly low incidence of side effects. It is economical.
For technical details, call New York City—WO 6-3273—or write to
NEPERA CHEMICAL CO., INC., HARRIMAN, NEW YORK



All aboard for profits
with
GOLD LEAF
Private Formulae*

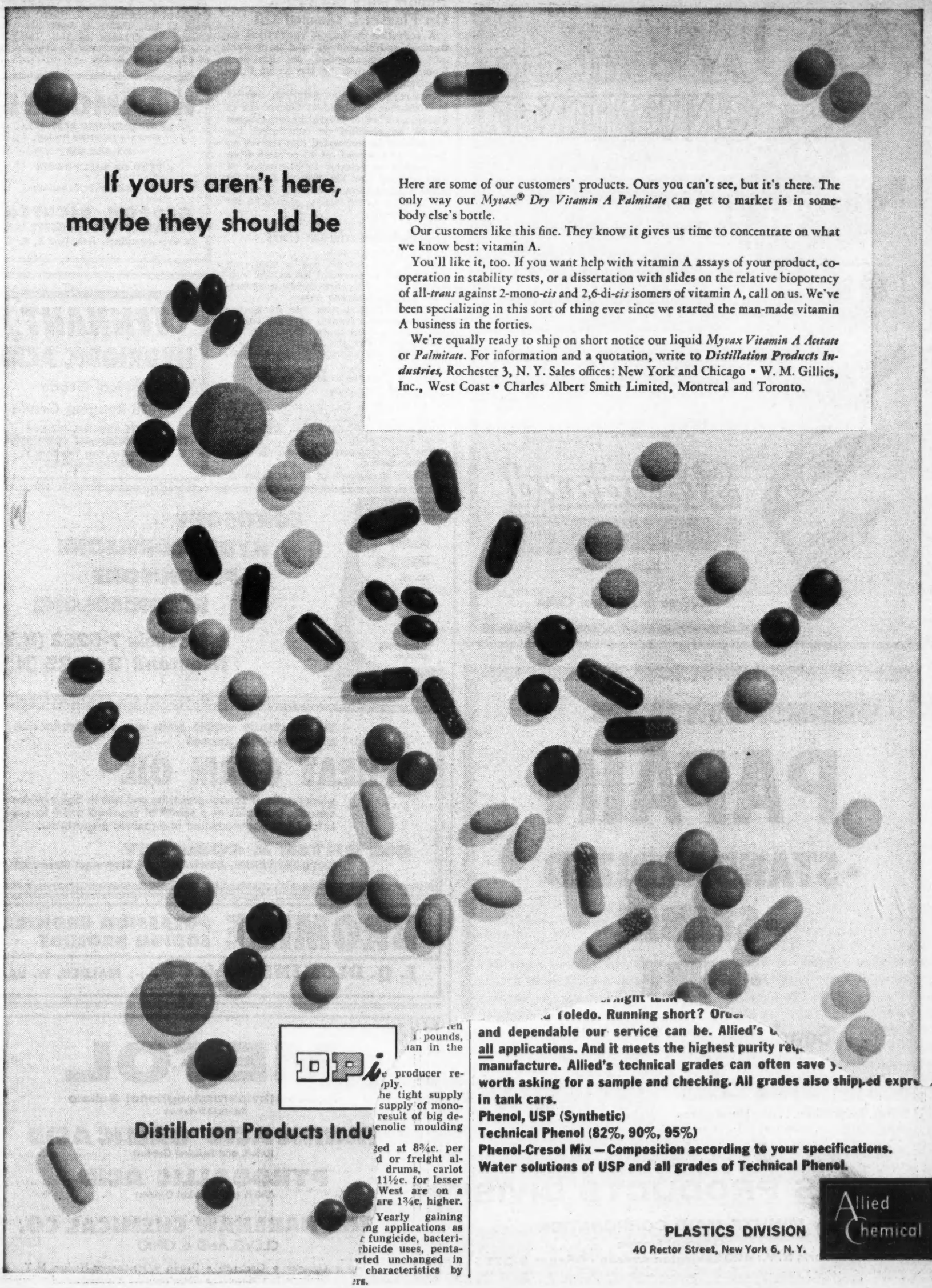
- * Quality mass produced under precision laboratory control in our own plant
- * Available under your own label or ours.

GOLD LEAF PHARMACAL CO., INC.
36 LAWTON STREET
NEW ROCHELLE, N. Y.
DEPT. OP

CAPSULES soft gelatin or 2 pc. hard gelatin; also timed disintegrating
INJECTABLES ampuls and multiple dose vials
TABLETS compressed or coated
LIQUIDS compounded and bottled

WRITE FOR THE LATEST GOLD LEAF CATALOG

GOLD LEAF



If yours aren't here, maybe they should be

Here are some of our customers' products. Ours you can't see, but it's there. The only way our *Myvax® Dry Vitamin A Palmitate* can get to market is in somebody else's bottle.

Our customers like this fine. They know it gives us time to concentrate on what we know best: vitamin A.

You'll like it, too. If you want help with vitamin A assays of your product, cooperation in stability tests, or a dissertation with slides on the relative biopotency of all-*trans* against 2-mono-*cis* and 2,6-di-*cis* isomers of vitamin A, call on us. We've been specializing in this sort of thing ever since we started the man-made vitamin A business in the forties.

We're equally ready to ship on short notice our liquid *Myvax Vitamin A Acetate* or *Palmitate*. For information and a quotation, write to ***Distillation Products Industries,*** Rochester 3, N. Y. Sales offices: New York and Chicago • W. M. Gillies, Inc., West Coast • Charles Albert Smith Limited, Montreal and Toronto.

DPi

Distillation Products Indu

...en
...pounds,
...an in the
...e producer re-
...pply.
...he tight supply
... supply of mono-
... result of big de-
...enolic moulding
...ged at 8¾c. per
...d or freight al-
... drums, carlot
... 11½c. for lesser
... West are on a
...are 1¾c. higher.
... Yearly gaining
...ng applications as
...t fungicide, bacteri-
...bicide uses, penta-
...orted unchanged in
... characteristics by
...ers.

...raight tank ...
...d Toledo. Running short? Orde...
and dependable our service can be. Allied's ...
all applications. And it meets the highest purity re...
manufacture. Allied's technical grades can often save y...
worth asking for a sample and checking. All grades also shipped expre...
in tank cars.

Phenol, USP (Synthetic)
Technical Phenol (82%, 90%, 95%)
Phenol-Cresol Mix — Composition according to your specifications.
Water solutions of USP and all grades of Technical Phenol.

PLASTICS DIVISION
40 Rector Street, New York 6, N. Y.

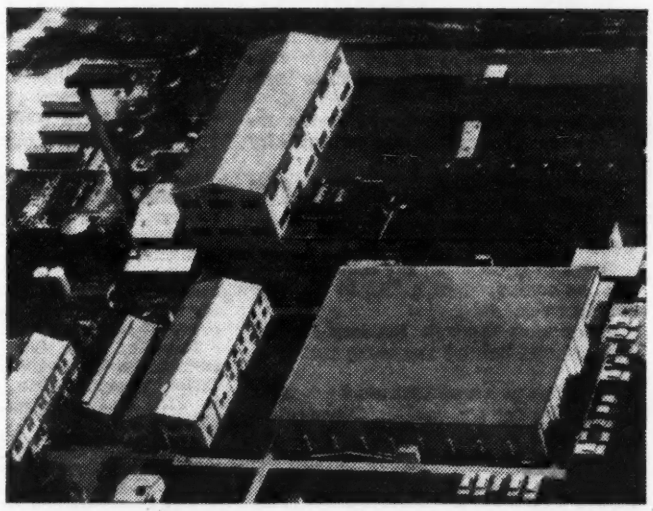
Allied Chemical

ONLY MINUTE MAID® OFFERS 100% PURE CITRUS ESSENTIAL OILS FROM FLORIDA AND CALIFORNIA!

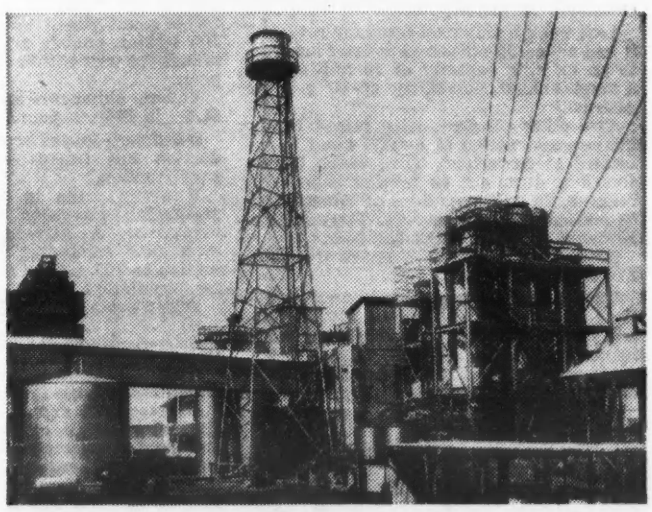
SUN-FILLED®

BRAND

Florida and California All-Valencia Orange Oils, Cold Pressed, U.S.P.
California Lemon Oil, Cold Pressed, U.S.P.
Florida and California Grapefruit Oils, Cold Pressed
Florida Lime Oil, Cold Pressed
Florida Tangerine Oil, Cold Pressed



Florida SUN-FILLED citrus oils are produced at 3 Minute Maid plants — Plymouth (shown above), Auburndale and Leesburg, Florida.



California SUN-FILLED citrus oils are produced at Minute Maid's Golden Citrus plant at Anaheim, California.

With extensive groves in Florida and California, Minute Maid is the *only* producer which gives you a choice of citrus essential oils from both of these great citrus-producing states. For example, Minute Maid offers *two* SUN-FILLED All-Valencia Orange Oils, Florida or California... both Cold Pressed, U.S.P., with true, rich Valencia Orange flavor, aroma and color.

All SUN-FILLED citrus essential oils are guaranteed 100% pure. You can use them with complete assurance because they're produced and packed under continuous U.S.D.A. inspection... completely protected against adulteration and sophistication by tamper-proof seals.

What's more, with SUN-FILLED citrus essential oils you're assured of highest quality. Minute Maid's strict quality control assures constant uniformity, batch after batch. When you buy SUN-FILLED you buy the very best! And you're always sure of ample, dependable supply from Minute Maid—America's largest producer of citrus products.

SUN-FILLED citrus essential oils are shipped in 35-lb. tins and 385-lb. drums. Write us now for free samples!

BOTTLERS AND BEVERAGE BASE MANUFACTURERS

Send for our free 4-color brochure on SUN-FILLED citrus essential oils and beverage concentrates. They're unmatched for adding true citrus fruit flavor, aroma and color to soft drinks!

CITRUS PRODUCTS DIVISION

MINUTE MAID CORPORATION
Orlando, Florida
New York, N.Y.: 420 Lexington Avenue • ORegon 9-8755

Essential Oils, Aromatics

Severe weather and snow storms mean good business for some essential oils and aromatic chemicals. Reported to be moving in good volume are such items as eucalyptus oil, thyme oil and methyl salicylate, which are used extensively in cold preparations. Business, in general, is reported to be sluggish with the economic recession held largely responsible. The only price rise noted was in Java-type citronella which advanced 5 cents per pound. Ceylon material remained at its previous quotation.

Among the items to decline in price were: grapefruit, which went down 10 cents per pound; Mexican lime, which went down 35 cents per pound; West Indian expressed lime, down $1.25 per pound, and spearmint, down 80 cents per pound.

The following figures on foreign production, exports and imports of essential oils and related products, are from *Chemical and Rubber*, published by the US Department of Commerce, Business and Defense Services Administration.

• Belgium exported 600 metric tons of essential oils and perfumes in 1958 and 900 metric tons in 1959.

• Cosmetics output in Austria rose to $10.4 million. Imports increased from $250,000 in 1958 to $392,300 in 1959. Principal suppliers were France, West Germany, and the United Kingdom. Exports remained insignificant at $115,400, only slightly above the $96,100 in 1958. The major portion of 1959 exports, $45,000, went to West Germany, Italy, and the United States. Many cosmetics are made under foreign licenses or by Austrian subsidiaries of foreign companies.

From published sources it is learned that tobacco manufacturers continue to rely heavily upon flavoring for cigarets. (Filters apparently filter out some of the natural flavoring as well as harmful irritants.)

Menthol is the most popular of the added flavors, but it is said that researchers are working on the incorporation of such tastes as cinnamon and clove into the tobacco.

Other flavors that have been in use for some time are licorice, prune, vanilla, cocoa, tonka beans, dates, geranium, honey, maple, peach and imitation rum.

Price Trends

Advanced

Citronella, Java-type, 5c. per lb.

Reduced

Grapefruit, 10c. per lb.
Lime, Mexican, 35c. per lb.
West Indian, expressed, $1.25 per lb.
Spearmint, 80c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
144.08	144.61	144.90	146.41

For Current Prices see Page 10

Essential Oils

Bay—The market continues firm following recent price increases. Puerto Rican, 50 to 55 percent material continues at $3.25 per pound; 55 to 60 percent material continues at $3.60 per pound, and West Indian, 50 to 55 percent material continues at $3.75 per pound.

Cardamom — The market continues steady at $43 per pound.

The planting season in Mysore is just about ready to begin, according to agricultural information received here. Planting is generally done in February and March.

Harvest of the crop that is planted during the next few weeks, however, will not be harvested for some five years.

The cardamom capsules must be gathered from the fruit stems just before maturity while they are still somewhat green and beginning to turn yellow. If they are left on the fruit stems, they will split and eject their seeds.

The capsules are carefully cut off with scissors nowadays rather than carelessly pulled off as they were in times past. The essential oil and principal flavoring agent that people have come to think of as cardamom, is contained almost completely in the seed which is inside the capsule.

Traders take special pains to see that the capsules are carefully dried and cleaned.

They are placed on dry mats and set out in the sun. Care must be taken, however, to keep them from drying too rapidly. If they dry too rapidly, the capsules are apt to swell, burst, and loose some of their seeds.

Citronella — Java-type material advanced in price from its previous $1.15 per pound, to $1.20 per pound. Ceylon material continues at $1 per pound.

Geranium—Both the Algerian and the Bourbon material continue at $22 per pound.

Grapefruit — Continuing to weaken, grapefruit declined once again last week.

From its previous low, $3 per pound, it went down to $2.90 per pound.

Lavandin—The market continues firm following last week's price advances.

The 22-24 percent material continues at $1.15 per pound and the Abrial continues at $1.20 per pound.

Lavender Flower—The market remains unchanged, according to essential oil dealers here in the New York area.

Lime—A number of changes were noted in lime oil prices.

Mexican distilled material declined from its previous low, $5.35 per pound, to an even $5 per pound. West Indian material remained at its previous level, $5 per pound. And West Indian expressed material declined from its previous $7.75 per pound all the way down to $6.50 per pound.

Nutmeg—The market remains relatively firm.

Prices for both the East and the West Indian material continue to range between $9 and $12 per pound.

Ocotea Cymbarum—The price continues to range between 46c. and 53c. per pound.

Orange—A survey of essential oil dealera around the New York area, about Florida orange oil, indicates that there is a great deal of speculation as to where the market is heading.

Loudest is the prediction that the market will firm and prices rise the minute reports start coming in about frost damage to the crop, which some dealers indicate is imminent.

There is apparent, hesitancy on the part of dealers to fill large orders now, for fear that their own replacement costs will be appreciably higher if there is weather damage to the crop later on. So, even though there is material available now, dealers are not eager to get rid of all their stocks.

For what it's worth, word has reached this desk that the orange crop is generally late which, in itself, might have a firming effect on the oil market.

The low of the OPD range continues at 40 cents per pound. Some dealers, however, are asking a bit more for their material.

It has also been suggested that growers are flooded with material and that, short of a heavy freeze, the market will remain unchanged.

Peppermint—No price changes were noted. Natural material remains at $5.25 per pound.

Sandalwood—No spot price changes were noted.

Spearmint—More plentiful offerings of material from source have served to weaken the spot market.

From its previous low, $7.80 per pound, spearmint oil has dropped to $7 per pound.

Tangerine—Very little activity is noted in this market, according to reports from essential oil dealers here in the New York area. The price remains unchanged at $4.75 per pound.

Thyme—This oil is moving in good volume because of the cold weather. It is used for its medicinal properties as well as for its flavoring properties in various cold preparations.

Prices continue unchanged.

Red material continues to range between $2 and $3.15 per pound, white material continues to range between $2.20 and $3.30 per pound, and white technical continues to range between 40c. and $1.85 per pound.

Aromatic Chemicals

Vanillin—November imports of vanillin amounted to 47,560 pounds, valued at $114,588 and dutied at $28,896.

SEALED For Your Protection

MM&R containers, sealed for your protection and securely packed in cartons or wooden cases, travel safely to every state in the Union . . . and to the ends of the earth. Aluminum and steel drums, carefully gauged and rigidly inspected, meet every shipping requirement.

MAGNUS, MABEE & REYNARD, INC.

The World's Most Famous Supplier of Essential Oils, Basic Perfume Oils, and Concentrated Flavors

16 DESBROSSES STREET • NEW YORK 13, N. Y.
221 NORTH LASALLE STREET • CHICAGO 1, ILL.

SOLUBLE RESINS:
STYRAX
BALSAM TOLU
BENZOIN

S. B. PENICK & COMPANY
100 CHURCH ST., NEW YORK 8
735 W. DIVISION ST., CHICAGO 10

PENICK
AROMATICS AND FLAVORS DEPARTMENT

ESSENTIAL OILS • PERFUME OILS • FLAVORS • AROMATIC CHEMICALS and ODOR MASKS
Proven Replacements For: BERGAMOT OIL, CITRONELLA OIL, ANISE OIL, CASSIA OIL
DOMESTIC EXPORT — YOUR INQUIRIES SOLICITED
D. W. HUTCHINSON & CO., INC., 700 South Columbus Ave., Mount Vernon, N. Y.
Founded 1896 — Telephone: Mount Vernon 4-7272

AEROSOL BOUQUETS
FLAVORING EXTRACTS
MASKING ODORS
for INDUSTRIAL PURPOSES

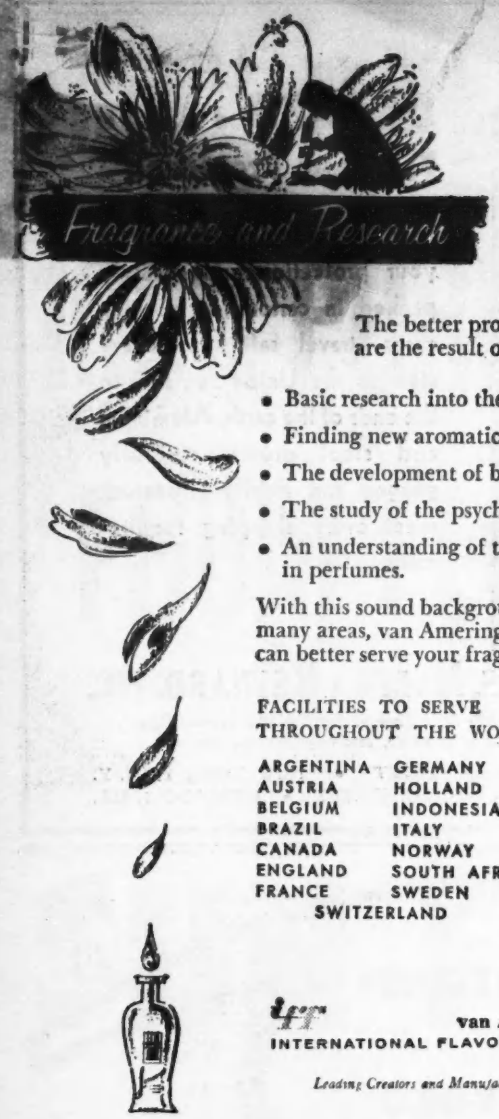
by Florasynth LABORATORIES, INC
900 VAN NEST AVE., NEW YORK 62, N. Y.
Chicago 6, Los Angeles 21, and other principal cities in the U.S., Canada and Mexico

CINNAMIC ALDEHYDE

Our own production . . . now available in any quantity. Rigidly controlled fractionation process eliminates all traces of benzaldehyde and other highly polymerized products . . . No objectionable by-notes . . . Batch after batch uniformity guaranteed . . . Excellent as basis for producing imitation cassia oil . . . also as intermediate for production of cinnamic alcohol and cinnamic alcohol esters . . .

WRITE FOR SAMPLE

FRITZSCHE BROTHERS, Inc.
76 NINTH AVENUE — NEW YORK 11, N. Y.
Branch Offices and *Stocks: Atlanta, Ga., Boston, Mass., *Chicago, Ill., Cincinnati, Ohio, Greensboro, N. C., *Los Angeles, Cal., Philadelphia, Pa., San Francisco, Cal., St. Louis, Mo., Montreal and *Toronto, Canada; *Mexico, D. F. and *Buenos Aires, Argentina. Plants: Clifton, N. J. and Buenos Aires, Argentina.



The better product fragrances of today are the result of extensive research . . .

- Basic research into the sources of natural fragrance.
- Finding new aromatic materials.
- The development of better processing methods.
- The study of the psychology of scent.
- An understanding of trends and preferences in perfumes.

With this sound background of broad research in many areas, van Ameringen-Haebler can better serve your fragrance needs.

FACILITIES TO SERVE THROUGHOUT THE WORLD

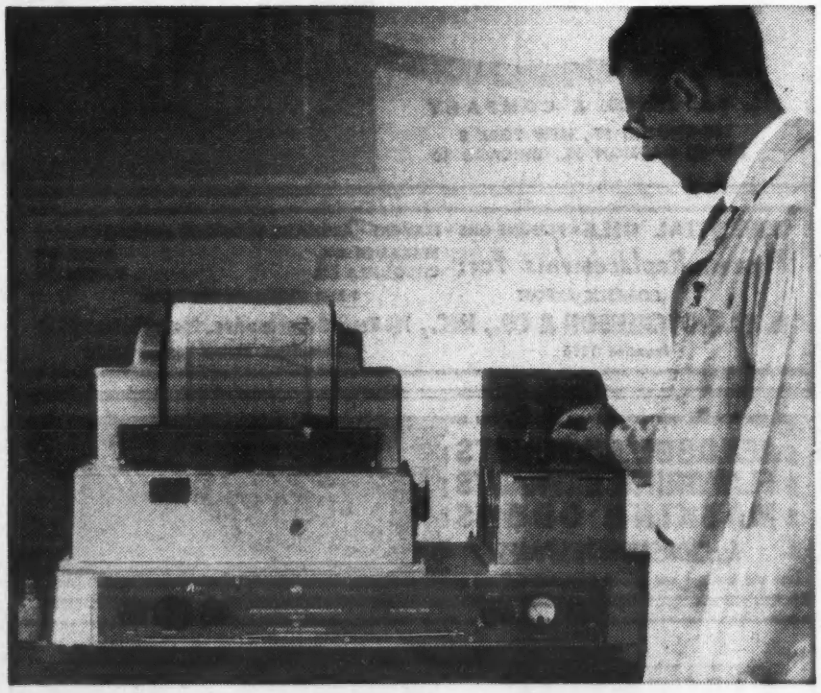
ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA, ENGLAND, FRANCE, GERMANY, HOLLAND, INDONESIA, ITALY, NORWAY, SOUTH AFRICA, SWEDEN, SWITZERLAND

Alva FLAVORS

for basic good taste in pharmaceuticals and foods.

van Ameringen-Haebler division
INTERNATIONAL FLAVORS & FRAGRANCES INC.
521 West 57th St. • New York 19, N. Y.

Leading Creators and Manufacturers in the World of Fragrance



For aromatic chemicals of highest chemical and olfactory purity *SPECIFY GIVAUDAN*

Givaudan—the world's largest manufacturer of aromatic chemicals—has long specialized in the development and product application of synthetic aromatics. Their outstanding purity . . . exceptional stability . . . consistency of odor . . . result from Givaudan's careful step-by-step control during every phase of development and production. Specify Givaudan aromatics. They set the world's standards for highest quality aromatic materials.

GIVAUDAN

GIVAUDAN-DELAWANNA, INC.
321 West 44th St., New York 36, N.Y.

Essential Oils

This material came from the following countries:

- Canada—41,550 pounds, valued at $101,756 and dutied at $20,566.
- The Netherlands—4,205 pounds, valued at $28,100 and dutied at $5,465.
- Switzerland—2,205 pounds, valued at $14,732 and dutied at $2,865.

These figures are from the Foreign Trade & Economics Operations Division of the Bureau of Census, US Department of Commerce.

Seeds and Spices

Pepper—Both black and white peppers declined in price last week.

Malabar black declined from 48c. per pound to 46c. per pound. Lampong black declined from 48c. per pound to 46c. per pound. And Muntok white declined from 74c. per pound to 73c. per pound.

Plastics Engineers

—Continued from page 7

ard jet engine using a reinforced plastic compressor housing was said to have operated successfully for 150 hours—the airborne equivalent of about 75,000 miles.

In other developments reported at the meeting:

- Plastic materials "tailor-made" for specific applications may result from increased use of thermodynamic diagrams, said J. M. Lupton of E. I. duPont de Nemours & Co. He added that "molecular engineering" will permit production of plastics with specific and predetermined properties.
- Science is baffled by a polypropylene molded hinge which through repeated use "actually increases in tensile strength," according to Russell D. Hanna, of Hercules Powder Company. No explanation of the phenomenon was offered, but Mr. Hanna pointed to a broad range of new polypropylene applications opened up by it. Included are cases for eyeglasses and phonograph records, accelerator pedals and air deflection registers for air-conditioners in automobiles.

Nitrogen Consistent

—Continued from page 7

monium sulfate in the US is resorted at $25. Urea in the world market is running at $82 a ton, according to the British company.

Aikman also has this to say:

- There is some fear that the increasing quantities of ammonium sulfate as a by-product of caprolactam may have a disturbing effect on the market. "Although the quality is not up to the standard of synthetic material, it is suitable for mixing."
- Although there has been little or no tonnage sold recently to the major consuming markets of China and Korea, stocks are probably lower today than they were at this time last year. "This is due to a successful sales drive in the large number of small consuming countries."
- In Spain, very few new sales have been effected since the introduction of the anti-dumping duty in June, 1960, but some shipments of ammonium sulfate from the US have been effected, and European imports have been authorized at $30 per metric ton, f.o.b. Production in Spain is now at a rate of 125,000 metric tons or more of pure nitrogen a year, or more than half the total consumption in 1959-60.
- In India, 41,000 tons of ammonium sulfate were recently sold at a price higher than last year, and a further large tender is expected.
- In Korea, there have been no new tenders, but Aikman understands that "some $30 million in ICA funds have been earmarked for nitrogenous material for a tender shortly to be issued." Meanwhile, some commercial sales of ammonium sulfate have been concluded from the US and Canada.

Aikman's report appears in the current issue of *Nitrogen*, the British trade quarterly.

AROMATICS BY VERONA®
for RELIABILITY QUALITY and SERVICE
VERONA AROMATICS
26 VERONA AVENUE • NEWARK 4, NEW JERSEY

MUSTARD FLOUR
ALL GRADES FOR FOOD, AND MEDICINAL USE
Special for Mayonnaise
Old Dutch Mustard Co., Inc.
Manufacturers
80 Metropolitan Ave., Brooklyn 11, N. Y.
Phone: EVergreen 7-9156

CHAS. L. READ & CO., INC.
30 JOURNAL SQUARE, JERSEY CITY 6, N. J.
Phone: NEW JERSEY OL. 6-2626 NEW YORK WO. 4-1131
THE GREATEST NAME IN TURPENTINE
GUM SPIRITS • STEAM DISTILLED • SULPHATE

FLAVORS PF&W SCENTS
POLAK'S FRUTAL WORKS INC. MIDDLETOWN N.Y.

Fairmount CHEMICAL CO. INC.
136 Liberty St., N.Y. 6, N.Y. • Plant: Newark, N.J.
ACETOIN FOR BUTTER FLAVOR

Oil of Geranium Bourbon Replacement
ESSENTIAL OILS
PERFUME BASES
AROMATIC CHEMICALS
FLAVORS & FLAVOR MATERIALS
FELTON CHEMICAL COMPANY, INC.
599 JOHNSON AVENUE, BROOKLYN 37, N.Y.
FELTON
Write for Samples

Coatings Materials

In so far as paint raw materials are concerned January business has been quite good and better than expected, according to most sources. Price changes during the week were confined to the copper oxides pigments which declined 1 cent per pound as a reflection of lowered copper metal prices. Aside from the continued snug situation in phthalic anhydride derivatives, supplies of virtually all other paint raw materials are adequate to take care of all needs.

The various organic dry colors manufactured for use primarily in industrial finishes are moving well.

While the automotive industry has curtailed production somewhat from the peak operations maintained upon introduction of new models, business in industrial finishes has remained good, and such cutbacks in other metal finishing industries have been less noticeable.

Plastics demand for pigments is well sustained. Paper continues to take heavy volumes of such pigments as titanium dioxide. Titanium dioxide pigments of special design for use in specific end-uses such as paper coatings, or for high retention for use in the beater in paper manufacture are moving well.

Alkyd resin demand remains good but is subject to less pressure than would be the case were it not for the proportion of business volume taken over by such competitive finishes as acrylic lacquers, epoxies, and other nonphthalic polymeric materials.

Plasticizer picture is just about the same as it has been—snug but not tight. The current supply/demand relationship has eased more from a decline in demand than from a significant improvement in the volume of materials available.

Price Trends

Advanced
None

Reduced
Copper Oxide, 1c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
104.56	103.15	103.14	103.03

For Current Prices see page 10

Prime Pigments

Copper Oxide—A reduction in the price of copper metal that took place a few weeks ago is beginning to force similar reductions in allied compounds. Copper oxide prices were reduced last week by a corresponding amount.

New prices for copper oxide in 100 lbs. to 5,000 lbs. lots is 46c. per lb., down a half cent from previous listings. US Navy type II copper oxide is newly quoted at 44½c. per pound for shipments up to 5,000 lbs. US Navy type I, grade AA, is being quoted at 46½c. per pound, down 1c. from a week earlier.

Titanium Dioxide—Good trade acceptance of the claimed advantages for titanium dioxide manufactured by the chloride process is leading to increased volume of business in this pigment by such consuming industries as plastics, paint, and paper. In addition to good sustained demand for titanium dioxide generally, regardless of manufacturing processes, research developments, now commercial, have led to further use through better products for application in specific industries and end-use applications.

Manufacturers of titanium dioxide pigments have never been satisfied with a status quo situation.

This has led to such developments as pigments designed especially for paper coatings, special pigments for use in the beater for high retention, and special pigments for plastics.

In some cases these developments have led to very significant economies for consumers in their finished products.

Such developments are good for the industry, and a far cry from the days not long ago when there was one universal water dispersible grade for anything from shoe polish to paper work.

Toluidine Red—Supplies of this material are described as quite ample to take care of all needs.

Industrial finishes for automobiles and other durable goods are said to be in sustained good demand despite cutbacks from peak operations in certain sections of the metal working industries.

Overall business is good. January business volume is definitely better than expected for this pigment and for certain others used in various industrial coatings.

Lacquer Materials

Plasticizers—The somewhat higher price schedules effected at the new year on major phthalate ester type plasticizers is holding firm.

Such increases amounted to ½ cent to ¾ cent per pound depending upon the ester, and were, of course, a reflection of the higher price established on phthalic anhydride. The new schedules are expected to remain firm for the balance of the quarter and beyond.

Supply and demand situation is in somewhat better balance than before.

However, this is due more to a decline in demand rather than any significant increase in available quantities.

Since business in January is not really off too much, and will have to be described as good rather than poor, not much change is looked for in the immediate future.

If the expected improved business situation occurs in the second half, however, a tight supply situation could again develop. This is not intended to indicate that supplies now are exactly free, in view of a still inadequate availability on phthalic anhydride.

Miscellaneous

Asbestos—November 1960 shipments of asbestos fiber for the industry at 141,471 tons was 31,769 tons, or 28 percent, higher than the same month a year earlier. The increase in shipments is attributed to heavy exports prior to the close of navigation, the trade journal *Asbestos* reports.

Year to date shipments at the end of November ran 116,194 tons or approximately 13 percent ahead of November, 1959. The outlook for 1961 is for a slight gain over those established last year.

The market situation in asbestos textiles is reported to be very poor however, as capacity continues to exceed demand. The prospects are none too bright, trade sources feel, for any sort of immediate relief.

Casein — Listings for imported casein continues on the weak side as prices are reported to have failed to regain lost ground.

Argentine and Polish casein were at a range of 16¾c. to 17¼c. per pound or very close to a 10-year low. Australian casein holds in the range of 19¼c. to 19¾c. per pound, unchanged from last week.

The problem of over-production continues to plague casein men. It remains the central stumbling block in the way of a stabilized market, some in the trade believe.

Should the weakening trend continue unchecked, the problem may have to be handled on an international level.

In the case of an agricultural material that has had its over-production problems, the Food & Agriculture Organization of the United Nations, has called a meeting of all producers of the material to attempt to settle the problem. The meeting is scheduled to take place in March and the results of the producers' efforts should prove interesting and might provide a precedent for similar problems on the world-market.

Naval Stores

Gum naval stores production during December totaled 6,160 barrels of turpentine and 26,290 drums of rosin, according to the Crop Reporting Board. For the first nine months of the 1960 crop year, production was 12 percent higher than the same period a year ago.

Combined production of steamed distilled and sulfate turpentine during December amounted to 35,700 barrels, compared with 39,670 barrels for the previous month. The output of steam distilled and tall oil rosin was down to 128,880 drums, 13,680 drums less than reported for November.

SYNPRO STEARATES

- ZINC STEARATE USP, COSMETIC, TECH.
- ALUMINUM STEARATE (All Types)
- CALCIUM STEARATE
- BARIUM STEARATE
- MAGNESIUM STEARATE USP, TGA
- CADMIUM STEARATE and others

30,000 lb. lots available for single shipments . . Also producers of aurates, palmitates, and others
SYNPRON stabilizers for Vinyl Compounds

SYNTHETIC PRODUCTS COMPANY
Since 1917
1636 Wayside Road, Cleveland 12, Ohio • Phone: KE 1-6010

CASEIN ALL GRADES
● HYDROCHLORIC ● LACTIC
● RENNET
"NATIONAL CASEIN"
NATIONAL CASEIN CO., CHICAGO 20, ILL.
TYLER, TEXAS
NATIONAL CASEIN OF NEW JERSEY
RIVERTON, N. J.

OPD REPRINTS
35¢ A COPY
Iron Oxides
DOP and DIOP
Titanium Pigment
OIL, PAINT AND DRUG REPORTER
Reprint Department
30 Church Street, New York 7, N. Y.

ULTRAMARINE BLUES
- Prompt deliveries through nationwide warehouses
- Complete range of types
- Experienced technical service

The Big Name in Quality Ultramarine Blues (formerly sold by American Cyanamid Company)
UNITED ULTRAMARINE & CHEMICAL COMPANY, INC.
149 Broadway, New York 6, N.Y.

R.T. VANDERBILT CO. N.Y. AMERICAN PRODUCTS
RAYOX
PURE TITANIUM DIOXIDE
•
Rutile and Anatase
•
R. T. VANDERBILT CO., INC.
230 PARK AVENUE • NEW YORK 17, N. Y.

CALL FOR DUVAL

For the finest service and quality!

• MURIATE OF POTASH
• SULPHUR

Produced by

DUVAL SULPHUR & POTASH CO.

EXCLUSIVE SALES AGENT

ASHCRAFT-WILKINSON COMPANY

ATLANTA, GEORGIA

DDT

CUSTOM GRINDING

LEBANON CHEMICAL CO.

P. O. 532, LEBANON, PENNA.

SULPHATE OF AMMONIA

★ *Top Quality*
★ *Bulk or Bagged*
★ *Prompt Delivery*

REPUBLIC STEEL

DEPT. OP-6912-A • 1441 REPUBLIC BUILDING

CLEVELAND 1, OHIO

OPD REPRINTS 35¢ A COPY

BHC
DDT

OIL, PAINT AND DRUG REPORTER

Reprint Department

30 Church Street, New York 7, N. Y.

The world's standard reference on . . .

Modern chemical engineering fundamentals and practice

THE 3rd edition of this great reference work brings you a fresh coverage of both standard and recently compiled facts, figures, and methods applicable not only to chemical engineering but to important related fields.

All developments in every branch of chemical engineering — including those of recent critical years — are expertly presented by more than 140 recognized authorities to bring you up to date on technical data—on new procedures, modern applications, new equipment, etc. Important information—previously restricted to only a "classified" listing—is made available for the first time.

3rd Edition • *PERRY'S*

CHEMICAL ENGINEERS' HANDBOOK

Prepared by a Staff of Specialists, John H. Perry, Editor
Technical Investigator, E. I. Dupont de Nemours & Co.

1942 pages; over 2000 illustrations, graphs, tables; $21.00

Hundreds of pages of added reference data include:

- Increased coverage of low-temperature refrigeration and processes; methods of mechanical separations and sublimation.
- Revised material on flow of fluids; heat transmission; physical and chemical data
- A new presentation of humidification mathematical tables; weights and measures; etc., etc.

Whether you are a practicing engineer, executive, plant or laboratory worker, or mechanical engineer in a process industry, no matter what your question . . . you are sure to find it answered in this encyclopedic book — concisely explained and illustrated, authoritatively handled by a specialist, and instantly accessible. Here is your means of avoiding errors, saving time and trouble in procuring vital information.

Now you can turn to the 30 big sections of Perry's Chemical Engineers' Handbook for a wealth of modern chemical engineering knowledge . . . to check your methods against those in current approved practice; answer your questions not only on fundamentals, unit processes, etc., but also on a wide range of subjects related to chemical engineering.

Send your order with remittance to:

SCHNELL PUBLISHING COMPANY, INC., 30 Church Street, New York 7, N. Y.

Agricultural Chemicals

The fertilizer market outlook for the coming season should be slightly better than last year if trends toward higher analysis fertilizers, bulk blending and greater use of granulation and liquid fertilizer continue. That is the view of the Business & Defense Services Administration. Prospects for a favorable export balance for chemical fertilizers was also predicted by BDSA, an arm of the US Department of Commerce.

French potash supplies have been reduced as a result of a strike last year that cut back production by about 70,000 metric tons (OPD, 12/12/60). In addition, Spanish mines were also reported to have experienced some difficulty in mining operations. A shaft failure in one of the mines lowered production by at least 20,000 metric tons.

The reduction of potash supplies in Western Europe and the brisk demand for potash in the world market is expected to result in a snug supply situation during the next fertilizer season if not for several years to come.

Fertilizer consumption, at 7.5 million tons, was 1 percent higher in 1960, according to US Department of Agriculture estimates. The gross tonnage of fertilizers consumed in 1961 is expected to hold at about the 1960 level of 25.3 million tons due to the trend toward higher analysis fertilizers.

Shipments of all superphosphates and mixed fertilizers in 1960 totaled $1 billion or an increase of $20 million over the previous year. Total for all shipments of chemical fertilizers was placed at $1.220 billion or $40 million greater than in 1959.

Exports of fertilizers, which account for about 1 percent of total fertilizer shipments, lagged in the early part of 1960, but picked up in the second half of the year. The 1960 total apparently will be at least 5 percent ahead of 1959 exports, with imports up about 5 percent during the same period.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
110.71	109.41	111.26	110.95

For Current Prices see Page 10

Animal and Plant Foods

Crossing this desk last week was a report from the British Sulphate of Ammonia Federation, Ltd. Issued annually, the federation's report gives an objective analysis of the fertilizer situation in the United Kingdom and Europe.

Total production of nitrogenous fertilizers in the UK during the calendar year was reported at 1,779,200 long tons of which 1,015,000 long tons were reported as sulfate of ammonia. The 1959 total represents the highest production of nitrogenous fertilizers in the ten year period 1950-1959.

Keeping pace with the record production of sulfate of ammonia was the rate of consumption. More sulfate of ammonia was used in the manufacture of granular compound fertilizers than in any previous season. The federation was not without its troubles with dumping of material in its market. The report states that a considerable tonnage of Continental sulfate was dumped in the UK before action could be taken by the Board of Trade under Customs Duties.

During the fertilizer year 1959-60, record deliveries were made of nitrogen, phosphates and potash in the UK. A good harvest was reported to have given farmers confidence to apply more fertilizers.

Ammonia—Output of synthetic ammonia in November was reported at 408,035 short tons, according to the Census bureau. During November of 1959, production was placed at 387,282 short tons. Stocks of synthetic anhydrous ammonia held at producers' plants totaled 153,624 short tons on Nov. 1, and 200,499 short tons at the end of the month.

Ammonium Nitrate—Census reports that the output of ammonium nitrate during November was 279,137 short tons of which 259,948 short tons was fertilizer grade. This was reported to be some 9,000 short tons higher than the previous month's level of 250,648 short tons, and 25,201 short tons greater than the amount turned out during November, 1959.

Stocks of ammonium nitrate (fertilizer grade) held at producers' plants at the end of November were placed at 214,534 short tons, compared to 151,837 short tons on hand at the end of October.

Imports of ammonium nitrate (over 32 percent nitrogen during November were estimated by Custom's at 12,135 short tons, valued at $657,203. Inshipments of ammonium nitrate containing less than 32 percent nitrogen were reported at 960 short tons and brought in $56,932. In both cases, ammonium nitrate shipments originated in Canada.

Animal Proteins—Concern over the over-production troubles that have hit the fishmeal market has prompted the Food and Agriculture Organization of the United Nations to call an international meeting to deal with the problem.

Core of the problem is the fact that the world's productive capacity of fishmeal has risen rapidly over the past few years, from 1.2 million metric tons to 1.9 million metric tons in 1959. Demand has not kept pace with the increase in output.

The meeting has been called, with the approval of the fishmeal industry, to consider practical steps toward increasing demand and stabilizing market conditions.

Last September, at the annual meeting of the International Association of Fisnmeal Producers, an annual quota of 600,000 metric tons of fishmeal for Peru was suggested to and accepted by Peru. While Peru has increased her production by some 20-fold in the past six years, other countries, notably Chile, have boosted production four-fold and other important production countries have increased fishmeal output on the average of one-fourth.

Hoping to do something that would help straighten out the fishmeal situation, FOA has called the meeting to be held at its headquarters in Rome, March 20-29.

Nitrogen Solutions — Census reports output of nitrogen solutions, including combinations with urea, during November was 63,326 short tons, an increase of about 3,000 short tons over the previous month. Stocks of nitrogen solutions went from 60,286 short tons at the end of October to 71,826 short tons held at producers plants at the end of November.

Imports of nitrogen solutions during November were reported as originating Canada. Inshipments totaled 3,697 short short tons and were valued at $910,9b3. During the previous month, 3,095 short tons of nitrogen solutions were brought into the US, Inshipments from Canada.

Potassium Sulfate—Imports of potassium sulfate in November as reported by Custom's were 3,351 short tons valued at $136,442. Inshipments were from Belgium with 650 tons ($25,445); France 2,251 short tons ($88,551); and West Germany 650 short tons, at $136,442.

Phosphate Rock—Output of marketable phosphate rock in the US during 1960 was 17.4 million long tons, or 10 percent greater than in 1959, according to preliminary estimates by the Bureau of Mines. The leading producing state was Florida, with 72 percent of total production, followed by the western states with 18 percent and Tennessee at 10 percent.

In a roundup of phosphate rock processing expansions in 1960, the Bureau reports that a superphosphate plant was scheduled to go on stream at Nichols, Fla., in December but the Bureau did not report on its actual completion. More plants were being constructed in Florida, Mines reports. Expansion programs are reported for three leading companies in that state.

The long abandoned phosphate deposits on the southeast coast of Aruba, Netherlands Antilles, may be reopened as the result of recent drilling which indicates deposits in an area 2 miles long and 1 mile wide, with a thickness of 25 feet.

A new phosphate plant was opened in Brazil with a reported initial annual production capacity of 45,000 tons of phosphate fertilizer. Full capacity of approximately 1 million tons is expected to be reached in 1970, according to reports from the Brazilian company to the Bureau of Mines.

Oils, Fats and Waxes

New season highs for soybean futures were reflected in edible oils last week, resulting in fractional price advances for corn, cottonseed, peanut and soybeans oils. Consumer demand was reported still spotty. Crude coconut oil also was stronger for shipment from the Pacific coast because of the advance in copra. Olive oil for shipment from Spain was slightly lower due to slackened buying interest from European buyers.

Tallow and greases developed an easier tone owing to reduced demand for domestic and export account. Prices were lower, declining ⅛ cent for most grades. Offers were still light, but large buyers absorbed fair sized at lower levels. Cash lard was irregular and closed slightly higher.

Among industrial oils, tung continued to move upwards, advancing ½ cent per pound under increased inquiry and scarcity of offerings. Rapeseed oil also was firmer and boosted ¾ cent per pound. Supplies were low and closely held. Improved trading in safflower oil strengthened this market. Replacements were lifted ½ cent per pound. Brazilian castor oil continued easy and sales took place at a decline of ¼ cent.

Slow demand for oilmeals caused prices to weaken. Cottonseed and linseed meal declined $1 per ton for shipment, but soybean meal rallied on active export business advancing $4 per ton.

Price Trends

Advanced

Cocoa butter, ½c. per lb.
Coconut oil, crude, Pac. coast, ½c. per lb.
Copra, $5 per ton.
Corn oil, crude, ½c. per lb.
Refd., ½c. per lb.
Cottonseed oil, crude, ¾c. per lb.
Refd., ¼ to ⅜c. per lb.
Lard, cash, ¼c. per lb.
Peanut oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Rapeseed oil, ¾c. per lb.
Safflower oil, ½c. per lb.
Soybean meal, $4 per ton.
Soybean oil, crude, ⅜c. per lb.
Refd., ⅜c. per lb.
Tung oil, ½c. per lb.

Reduced

Castor oil, No. 1 Braz., ¼c. per lb.
Cottonseed meal, $1 per ton.
Grease, choice white, ¼c. per lb.
Linseed meal, $1 per ton.
Tallow, ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Jan. 29, 1960
105.66	*105.96	105.09	122.02

* Corrected.

For Current Prices see Page 10

Vegetable Oils

Castor—Trading was spotty. Domestic grades were unchanged. No. 1 Brazilian was available at 17¾c. per pound, tankcars, New York, prompt delivery, with trading thereat.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week	.....	3.574.000
Previous week	.....	1.430.000
Corresponding week, 1960..	.....	556.000
Total this year	....	8.592.000
Corresponding period, 1960.	378.600	9.406.000

Coconut—Shipments were stronger and advanced ½ 12½c. per pound, tankcars, f.o.b. Pacific coast for January-February. The New York market was unchanged at 13¾c., tankcars, as to quantity for prompt and later delivery.

Corn—Crude was firmer. Wet corn milled oil was raised to 15¾c. per pound, tankcars, f.o.b. mills, prompt shipment and dry milled sold at the same price. Refined oil was higher at 19.48c. tankcars, New York basis.

Cottonseed—Futures closed sharply higher reflecting the strength of soybean futures. All positions advanced sharply and closed at new highs for the season except for May. Trading was active, chiefly speculative. The advance stiffened cash oils and both crude and refined grades were ⅜c. higher. Refined salad was lifted to 15⅝c. per pound, tankcars, New York basis.

Offers of crude oil were limited and well held at the advance. In the southeast prices ranged from 11¾c. to 11⅞c. per pound, tankcars, according to location; 11⅝c. in the Valley; 11¾c. nominal, Lubbock and 11⅞c., nominal, Waco.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, January 27, follow:

		Cents per Pound		
March	435	13.90	13.23	13.85S
May	1,330	14.02	13.33	13.95S
July	655	14.07	13.40	14.00S
Sept.	67	13.80	13.10	13.75S
Oct.	33	13.51	12.98	13.51S
Dec.	3	12.90	12.70	13.15@13.50

Total sales and switches, 2,523 contracts.

Linseed—Business was light. Prices were steady and unchanged. Raw oil was quoted at 12.60c. per pound, tankcars, Minneapolis; 12.8c., January-March; same basis, and 13.72c., f.o.b. New York.

Olive—Slackened demand for replacements from Spain caused the market to become slightly easier. Shipments were quoted at $52.50 to $53 per 100 kilos, drums, f.o.b. ports for February-March. Oil on spot was quiet, and unchanged at $2.35 to $2.40 per gallon, drums, duty paid, exwarehouse, as to quantity.

Peanut—Crude was higher with sales at 14c. per pound, tankcars, f.o.b. mills, prompt shipment. Refined oil was raised to 17¼c., tankcars, New York basis.

Rapeseed—Scarcity of supplies stiffened this market. Demand improved and tankcars were sold at 14c. per pound, New York for prompt delivery and held at ¼c. more.

Safflower—This market was stronger and replacements were lifted ½c. Contracts for tankcars were advanced to 15.95c. per ton, basis Atlantic coast and ¼c. more for spot delivery.

Soybean—Upward surge of soybean futures further strengthened oil and crude advanced to 11⅜c. per pound, tankcars, f.o.b. mills, Decatur, unrestricted for prompt shipment. Refined salad was raised to 13⅜c., tankcars, New York basis.

Tung—Scarcity of offers and improved interest further strengthened this market. Sales were reported up to 25c. per pound, tankcars, New York, prompt delivery, with sellers naming ¼c. more. Domestic oil was not offered and nominal around 25c., tankcars, f.o.b. mills.

The government sold 1,080,000 pounds of tung oil at 24.278c. and 24.567c. per pound, bulk, f.o.b. Marrero, La., for unrestricted use last week.

Miscellaneous

Cocoa Butter—Demand was moderate, chiefly for prompt requirements. Prices ranged from 57½c. to 62½c. per pound, as to quantity for spot delivery.

Copra—Shipments were firmer and prompt advanced to $170 per ton, c.i.f. Pacific coast.

Flaxseed—Cash bids affected by more pronounced changes in futures at Minneapolis and Winnipeg. Overall trend was towards strength after a weak start, bids sustaining 5c. loss early and recovering 6c. Good volume traded on to-arrive basis on the early downturn. Cash flaxseed was bid $2.88 a bushel, spot and to-arrive, basis Minneapolis.

Fats and Greases

Greases—Trading was light and restricted to immediate needs. Choice white was lower and nominal at 8⅞c. per pound, tankcars, delivered. Yellow grease was unchanged at 5⅝c. to 5¾c., same basis.

Lard—Market was irregular. Cash lard was advanced to 11⅜c. per pound, drums, Chicago.

Tallow—Buying interest slackened resulting in an easier tone. Prices were off ⅛c. for most grades. Large buyers reduced bids and absorbed moderate lots at lower level. Bleachable was quoted at 6½c. per pound, tankcars, delivered. Prime 6¼c.; special, 6c.; fancy guaranteed, 6¾c. and No. 1, 5⅝c. to 5¾c. Export inquiry was less active. Guaranteed fancy was nominal at 7c. per pound, f.o.b. steamer and 1c. more for drums, f.a.s.

Fish Oils

Menhaden—Interest in crude for replacement was reported moderate for domestic and export account. Tankcars were maintained at 6¼c. per pound, f.o.b.

FATTY ACIDS
STEARIC ACID • OLEIC ACID
HYDROGENATED FATTY ACIDS
TALLOW FATTY ACIDS
HYDROGENATED GLYCERIDES
HYDROGENATED CASTOR OIL
12 HYDROXY STEARIC ACID
HARCHEM
CENTURY BRAND
HARCHEM DIVISION
WALLACE & TIERNAN, INC.
25 MAIN STREET, BELLEVILLE 9, NEW JERSEY
IN CANADA: HARCHEM LIMITED, TORONTO

"What a whale of a difference Sperm Oil makes"
SELF EMULSIFIABLE SPERM OIL
WERNER G. SMITH INC.
1730 TRAIN AVENUE
CLEVELAND 13, OHIO

WAXES
Importers and Refiners
CARNAUBA • OURICURY
CANDELILLA • BEESWAX
Crude • Refined • Bleached • Flaked • Powdered
MAMARONECK REFINED BRAND
Vegetable Waxes
CERESINS — OZOKERITES
Palm Waxes — Resin Blends
Compounds and blends made to your specifications
CERITA WAXES
M. ARGÜESO & CO. INC.
441 Waverly Ave., Mamaroneck, N.Y.
Owens 8-8500 • Cable: MARGUESO • Established 1908

THE EMERY
PREMIUM FOR
STEARIC & PALMITIC
USERS
FIVE GRADES, THREE FORMS—To meet your exact requirement, Emery furnishes five grades of stearic and palmitic acids, all available in flake form in palletized unit loads, some in cake or powder. COLOR AND COLOR STABILITY—Emersol Stearic and Palmitic Acids are unrivalled for their purity and whiteness and stability. Their outstanding resistance against heat darkening and rancidity make your products better . . . perform better longer. Emersol 132 Lily, a crystalline "triple-pressed" grade, is the finest stearic available. CRYSTALLINITY—Three of Emery's stearic acids (Emersols 132, 120 and 110) offer the added advantage of crystalline structure, with its inherent uniformity of composition. Emersol 140 meets the requirements of those that require high palmitic (70%) and Emersol 150 for high stearic (80%). UNIFORMITY—Emery's 24-hour Quality Control assures you that every order will meet rigid specifications. Emery's powdered stearic is the finest available, 99.5% through a No. 30 U.S. Standard Sieve. For full information on all five Emery Stearics, write for 24 page booklet, "Emersol Stearic Acids".
A LITTLE EXTRA EVERYTHING EXCEPT PRICE
FATTY ACID SALES DEPT.
Emery
INDUSTRIES, INC., DEPT. O, CAREW TOWER, CINCINNATI 2, OHIO
Emery Offices: Emery Fatty Acids: Stearic, Palmitic, and Oleic Acids, Hydrogenated, Vegetable, Castor, Tall Oil, Special Alkyd Grades, and Tallow Fatty Acids. New York • Philadelphia • Boston • Cleveland • Chicago • Vopcolene Division, Los Angeles • Ecclestone Chemical Co., Detroit • Emery Industries (Canada) Ltd., London, Ontario • Export, Cincinnati, Ohio.

AMERICAN MONTAN WAX

ALPCO

CONSIDER THAT ALPCO WAX . . .
- is guaranteed to be uniform
- is free from import restrictions
- is price stabilized
- is stocked at convenient points
- is offered with technical advice

REFINED GRADES (decolorized) NOW AVAILABLE

Produced in California by:
AMERICAN LIGNITE PRODUCTS COMPANY, INC.
IONE, CALIFORNIA
Sales Offices: 110 E. 42nd St.—RM 1211—New York City 17 • Ione, Calif.

Manufacturers of
"CORONA" LUXURY BRAND LANOLIN ANHYDROUS USP
"NOVOL" COSMETIC OLEYL ALCOHOL SUPERFINE COSMETIC LANOLIN USP
"HARTOLAN" WOOL WAX ALCOHOLS BP
POLAWAX SELF-EMULSIFYING WAX
"FLUILAN" LIQUID LANOLIN
"PROTANAL" Sodium ALGINATE
"CRODACOL" CETYL, STEARYL OLEYL ALCOHOLS

Croda INC.
15 E. 26 St. • New York 10, N.Y.
Tel. MUrray Hill 3-3089
Cables: CRODAFAS, NEW YORK
Subsidiary: Hummel Lanolin Corp. 185 Foundry St. Newark 5 N. J.
NEW YORK LONDON MILAN

QUAKER STATE QUALITY WAXES

A COMPLETE LINE FOR ALL INDUSTRIAL USES

QUAKER STATE OIL REFINING CORP.
WAX SPECIALTIES DEPARTMENT
OIL CITY PENNSYLVANIA

ARMOUR IDEA CHEMICALS

NEO-FAT® 8 • 10 • 12 • 14
CAPRYLIC CAPRIC LAURIC MYRISTIC

Armour offers fractionated short-chain fatty acids in highest quality. Leading manufacturers find these commercially pure coconut fatty acids essential to the production of flavors, dyestuffs, plasticizers, stabilizers, catalysts, alkyds and detergents. For new idea-provoking booklet, write:

Armour Industrial Chemical Company
one of The Armour Chemical Industries
110 N. Wacker Drive • Chicago 6, Illinois

Oils, Fats and Waxes

works for prompt shipment. Refined grades also were well held at former levels. Light pressed oil was quoted at 10c. per pound, tankcars, New York basis, prompt delivery.

Cake and Meal

Cottonseed Meal—Trading continued light and spotty. Market was easy and off $1 per ton. Meal, 41 percent, was available at $55.50 per ton, sacked, Mississippi Valley; $58, Alabama and $60, Georgia-Carolina area.

Linseed Meal—Increased interest developed in this market, although trading still held to limited proportions. Decline of $1 a ton in spot meal aroused substantial inquiry and market tone strengthened. Most formula feed manufacturers and jobbers have low inventories. Meal for deferred delivery advanced $1. Shipping schedules were well filled by orders against old contracts. Extracted meal, 34 percent, was quoted $56 a ton for spot delivery; $57, February-April. Old process expeller meal for February was firm at $61.50 per ton.

Soybean Meal—This market rallied on active export business which boosted unrestricted $4 per ton. Soybean crush for December, 1960 was an all-time record at 37,690,000 bushels, compared with previous record of 36,740,000 in November, 1960 and 33,790,000 bushels in December, 1959. Meal, 44 percent protein, was quoted $57 a ton, unrestricted, bulk, Decatur, for prompt delivery.

Waxes, Vegetables

Consumers continued to operate in a hand to mouth manner. While business lacked volume, prices were maintained for carnauba grades for nearby delivery. Candellila remained steady at the recent advance of 2c. per pound due to higher replacement cost. Crude beeswax was scarce and strong, especially for bleachable grades. Refined beeswax also was firm. Japan wax was quiet, but well held on spot and for shipment. Other varieties were unchanged.

P.A.'s Are Hinting

—Continued from page 5

month. While prices generally are steady, what pressures there are appear to be slightly upward.

Our special question this month deals with planned capital expenditures for 1961. Only 22 percent of our members say their expenditures will be greater, while 30 percent anticipate they will spend less than in 1960; 48 percent expect the same level of capital outlay. This would appear to confirm previous indications that broad increases in production facilities and capacities are not needed to sustain the antivipated level of business during 1961.

Commodity Prices

Prices continue to drift at about the same level as last month. However, upward pressures seem to be building in certain areas. This month, only 10 percent of our members report prices lower, as compared to 14 percent last month; 78 percent say there is no change, and 12 percent tell of slight over-all increases—which is double the number reporting increases last month. While our members do indicate some pressure upward in selected areas, they point out that procurement is still very competitive and few sellers are inclined to let an order get away solely because of price.

Purchased Materials Inventories

Inventory reduction continues, but at a slower rate. Picking up the trend noted in our November report—after a reversal in December—31 percent of the members report further reductions (as compared to 37 percent last month), while 18 percent report increases (compared to only 13 percent in December); 51 percent report no change.

Comments indicate that finished goods "inventories are still too high when related to sales" volume. However, several now say that their purchased inventory levels are in balance with business activity.

Employment

After some pause in December in the declining trend, January figures again show a worsened employment situation. Many who say their employment is off at this time, however, are more hopeful for the near future. For January, 36 percent report their employment as lower than in December, while only 7 percent mention higher figures. This leaves 57 percent with employment at December levels. A factor not shown by the satistics is that overtime work is being scheduled in many places in lieu of additions to payrolls.

Buying Policy

Figures for January indicate somewhat of a lengthening of forward commitments for both production materials and MRO supplies. While no conclusion can be drawn from this short-term reversal, it seems to lend support to the slightly more favorable position of some of the other indicators. The capital expenditures category also reflects some confidence, as evidenced by a willingness to extend commitments.

January	*Hand to Mouth*	*30 Days*	*60 Days*	*90 Days*	*6 Mos. to 1 Yr.*
Production Materials	10	39	34	14	3
MRO Supplies.....	32	47	15	4	2
Capital Expenditures	16	9	13	22	40
December					
Production Materials	14	38	34	11	3
MRO Supplies.....	36	43	18	3	0
Capital Expenditures	17	5	16	25	37

Specific Commodity Changes

The number of specific commodity price changes reported has increased from December, with particular strength indicated for steel scrap and phthalic anhydride. Copper, zinc and tin, on the other hand, show declines. The phthalic group continues in short supply.

On the up side are: steel scrap, steel drums, fuel oil, burlap, phthalic anhydride, naphthalene, and toluol.

On the down side are: copper, lead, zinc, tin, cotton, natural rubber, and glycerine.

In short supply are: phthalic anhydride and esters, naphthalene, and coal tar chemicals.

For Domestic and Export
COTTONSEED MEAL AND CAKE
PEANUT MEAL - SOYABEAN MEAL
Export Codes: ABC 5th, BENTLEY'S JUNIOR PEERLESS
Cable Address: BRODE
Phones: L. D. 271 — Local 38-2544
Teletype No. ME-260
THE BRODE CORPORATION
P. O. Box 700 1012 Falls Building
MEMPHIS, TENNESSEE

WARWICK WAXES
SHAMROCK CHEMICALS CORPORATION
420 Lexington Ave., N. Y. 17, N. Y. • ORegon 9-2550

RIEBECK® MONTAN WAX

Carnauba • Candelilla • Bayberry
Japan • Beeswax • Ouricury
Spermaceti • Ceresins • Ozokerites
"Custom Blended" Palm Waxes

These Brands are your guarantee of quality: Bonauba, Carbacote, Spermatine, Kiki,Kiku, K-Brand

Sole Importers U. S. and Canada, Riebeck Romonta Montan Waxes
STROHMEYER & ARPE CO. 139 Franklin Street, New York 13, New York, WA 5-2300

FOR "IMPOSSIBLE" BUDGETS

OUR TERMS MAKE THESE EASY TO BUY

2—6' x 50' Rotary Dryers. ½" shell. With all accessories.

1—Pfaudler 50 gallon Model P Reactor. Agitator, Motor & Drive.

2—J. H. Day 40" x 120" Single Deck Sifters. 2 HP TEFC Motor.

1—Dorrco 60' dia. 3 Tray Thickener 35' high welded Tank. Complete.

3—Eimco 8' x 12' Rotary Cont. Vacuum Filters. Steel closed drums.

1—Sharples 16 Vapor Tite Super Centrifuge. 316 Stainless cont.

2—Patterson 4'6" x 4'6" jcktd. steel Ball Mill w/charge. 15 HP Mtr.

1—J. H. Day 14" x 30" HI Speed 3 Roll Mill. 40/25 HP Motor.

For immediate quote, wire or phone collect—GA 1-1380

ME MACHINERY AND EQUIPMENT COMPANY

123 Townsend St., San Francisco 7, California

CHEMICAL EQUIPMENT DIVISION

Proudly Presents

Another CHEMICAL PLANT

LIQUIDATION

at NIAGARA FALLS, N. Y.

Pfaudler 500 gal. Type ELL Glass Lined, jktd., agit. Reactor.
Dopp 1000 & 1700 gal. Ni-Resist Dopploy, jktd., agit. Reactors.
Goslin Birmingham 36"x24" Stainless Rotary Vacuum Filter.
Buflovak 6"x8" double drum Rotary Vacuum Dryer.
A.T.&M. 40" & 30" Stainless Susp. Centrifuges, perf. & imperf. Baskets.
Niagara #12 Stainless Steel jacketed Filter.
Shriver Stainless 18" P&F closed 4 eye washing Filter Press.
Buflovak 6' Dia. Crystallizers, atmospheric & Vacuum.
Nash #9, #4, K5 and TS10 Hytor Vacuum Pumps.
Stainless & Copper Stills 3500 to 500 gal.

316 STAINLESS COLUMNS

12"x20' Packed
36"x21 Packed
36"x17'—15 Bubble Cap Trays
48"x40'—36 Bubble Cap Trays
54"x30'—26 Bubble Cap Trays
72"x30'—21 Bubble Cap Trays
78"x18'—14 Bubble Cap Trays

COPPER COLUMNS

24"x 8'—15 Bubble Cap Trays
24"x17'—24 Bubble Cap Trays
30"x11'—12 Bubble Cap Trays
36"x12'—15 Bubble Cap Trays
48"x15'—26 Bubble Cap Trays
48"x15'—50 Bubble Cap Trays
72"x16'—16 Bubble Cap Trays

TANKS

STAINLESS (dished heads)

11000 gal. Horiz. 8'x29'6"
6000 gal. Vert. 8'x18'
5000 gal. Vert. w/coils
4500 gal. Vert. 8'x12'
3500 gal. Vert. w/coils
3500 gal. Horiz. 7'x12'
3500 gal. Vert. 8'x9'
1750 gal. Horiz. 6'x8'
1250 gal. Horiz. 5'x8'
1200 gal. 5'x8' agit.
1000 gal. 5'x7' agit.
950 gal. Vert. 5'x5'
750 gal. 5'x5' agit.
500 gal. 3'6"x8' agit.
500 gal. Vert. w/coils
400 gal. 4'x4' agit.
300 gal. 4'x3' cone bot.
150 gal. 3'x3' agit.
125 gal. Vert. 2'x5'
80 gal. Vert. 2'x3'6"

GLASS LINED

2000 gal. Vert. 6'6"x8'8"
2000 gal. Horiz. 6'x10'
750 gal. Horiz. 5'x5'
400 gal. Vert. 4'x4'

ALUMINUM

18000 gal. Horiz. 10'x30'
12000 gal. Horiz. 9'x26'
7000 gal. Vert. 10'x12'
6000 gal. Vert. 8'x16'
1500 gal. Vert. 5'x10'
750 gal. Vert. 4'6"x6'

COPPER

3500 gal. 8'x9' w/coils
3000 gal. 8'x8' w/coils
2000 gal. 7'x7' w/coils
500 gal. 4'x5' w/coils

STEEL TANKS

22000 gal. Vert. 12'x25'
11000 gal. Horiz. 8'x30'
8500 gal. Vert. 8'x22'
5000 gal. Horiz. 8'x12'
5000 to 250 gal. (50)

HEAT EXCHANGERS

2300 sq. ft. Stainless tubes
1000 sq. ft. All Stainless
600 sq. ft. Stainless tubes
600 sq. ft. Copper tubes
420 sq. ft. All Stainless
300 sq. ft. Stainless tubes
235 sq. ft. Stainless tubes
150 sq. ft. All Stainless
100 sq. ft. Stainless tubes
80 sq. ft. Stainless tubes
68 sq. ft. Stainless tubes
30 sq. ft. Stainless tubes
Glass Lined, jktd. 30"x6'

S.S. CENTRIF. PUMPS

2x2" Model 15 DLP LaBour
2x2" Model H15-17 Durco
2x1½" 40-24MD Durco
1½x1" Model DHL LaBour

STAINLESS
COPPER, STEEL, ALUM.
VALVES, PIPE & TUBING

MISCELLANEOUS

Model "D" Fitzpatrick Comminuter
Squire 500 sq. ft. tray truck drier
Str. Wells Electric EH3 Dowtherm Heater
Anders Automatic Air Dehydrator
Dorr Thickeners 20'x4'
Duriron Vessels 1000 to 100 gallon
Foote Bros. gear reducers Type 25W
Swenson 24"x20' Stainless 316 Crystallizer, Jktd.
Roots Connersville 8"x24" Displacement Meter 60000 CFH
Norwalk Compresser Type SRSSR, 15000 PSI
Cleveland Size 400—VD gear reducers

Your Inspection Invited—Representatives on Premises
Write—Wire—Phone for Complete Information

HEAT & POWER CO., INC.

60 East 42 Street, New York 17, N. Y. Murray Hill 7-5280
Site Office—Pine Ave. & 47th Sts., Niagara Falls, N. Y. Butler 5-3644

Continuous Fine Grinding Equipment Offered Direct from Location Where Originally Operated

Priced For Quick Disposal

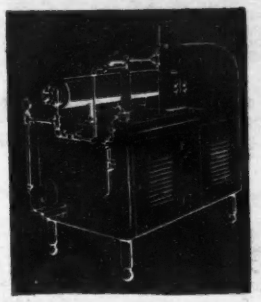
3 Allis Chalmers (2 compartments) 7'x22' Compeb Mills with Meehanite liners; each directly coupled to 400 H.P. motors.
1 Allis Chalmers 9'6" Continuous Ball Mill; or PRELIMINATOR with Meehanite liner; directly coupled to 400 H.P. motor.
3 Allis Chalmers 7'x22' Continuous Tube Mills; with three 14' Raymond Double Whizzer Air Classifiers; each mill directly coupled to a 400 H.P. 3/60/2200 V 180 RPM motor.
3 Raymond 14' Mechanical Air Separator with Double Whizzer. Each Separator V-Belted to a 75 H.P. motor.

All Mills and Classifiers were operated in CLOSED CIRCUIT.

Also available are Steel Enclosed Bucket Elevators and Screw Conveyors.

FMC

FIRST FEATURE



SAVE $2200. on a GIRDLER VOTATOR

in Stainless Steel
Model 41 S

First Come — First Served

FIRST PAYS MORE FOR YOUR SURPLUS EQUIPMENT

SPOTLIGHT SPECIALS

Baker Perkins 5 Gal. Dbl. Arm. Jktd. Mixer Pressure Cover; 30 HP.
Baker Perkins Hexaganol 150 Gal. Jktd. Barratte.
2 S/S 30" Micronizers.
Buflovak Chrome Plated Lab. Drum Dryer; 6" x 7⅝".
A.T.&M. S/S 60 Centrifuges.
Komarek Greaves Briquetting Presses; 75 H.P. Motors.

MIXERS—ALL TYPES

Baker Perkins Double Arm Jacketed Mixers up to 300 Gal.
J. H. Day Cincinnatus Double Arm Mixer; Stainless 300 Gal. Jktd.
Blaw Knox Double Cone Blender 300 cu. ft. 9'6" Diameter.
Brand NEW Falcon Double Ribbon Mixers, Steel or S/S; all sizes.

DRYERS—EVAPORATORS

Stokes Vac. Shelf Dryer No. 138 D; (7) shelves 24" x 36".
Devine Dbl. Door No. 36 Shelf Dryer; (20) Shelves, 86" x 78".
Louisville MONEL Rotary Steam Tube Dryer; 54" x 35'.
2 S/S Acme Continuous Rot. Vacuum Dryers or Concentrators.
Double Drum Dryers of Standard Make; 28" x 60" to 42" x 120".
2 F. J. Stokes Vacuum Impregnating Systems; complete.
Bowen Stainless Steel Table Model Spray Dryer; 30" x 32".
Bartlett-Snow Jktd. Agtd. Batch Dryer; 6' Dia.; 49 cu. ft.
Zaremba Double Effect INCONEL Evaporator with Calandria.
Link Belt Roto Louvre Dryer; Model No. 502-20.
Buflovak S/S Sanitary Thermo-Recompression Evaporator Complete.

REACTORS and PRESSURE VESSELS

Struthers Wells 2000 Gal. Stainless Reactors; Jktd. and Agtd.
2 Stainless 400 Gal. Reactors Jktd. & Agtd. by Struthers Wells.
6 Door-Oliver 550 Gal. Stainless Thickeners or Reactors.
2 MONEL Reactors 2800 Gal. 6'8" x 13'; 175# Intern. & Jktd. Coded.
Pfaudler Glass Lined Reactors, Jacketed, Agitated from 50 Gal. to 1000 Gal.

MILLS—GRINDERS—PULVERIZERS

Mikro Pulverizers up to No. 4; Mikro S/S Atomers No. 5 and No. 6.
Fitzpatrick Comminutating Machines, in Stainless; Models C, D and K.
Abbe Jacketed Steel Ball Mill; 42" x 32"; with charge of balls.
International Porcelain Lined Pebble Mills; 8' x 8'; 50 HP gearmotors.

CENTRIFUGES—CLARIFIERS

Stainless Suspended Type Centrifugals from 30" to 60".
2 Sharples Stainless Steel Model PN14 Super-D-Canters.
Sharples C27 Super-D-Hydrator in Type 316 Stainless; 40 HP.
2 Bird Continuous Horizontal Centrifuges; S/S & Monel 24".
2 Bird Rubber Covered Fume-Tight 48"; with Plows; 40 HP.

FILTERS and FILTER PRESSES

Oliver Pre-Coat; 3" x 2" Monel; 5'3" x 8' Stainless; 5'3" x 3' Steel.
Feinc Stainless Steel Rotary Vacuum Filter 3' x 1'.
4 Pressure Filters in 316 Stainless; 100 sq. ft.; 30" x 56".
Sparkler Filters Type 14 S 4 and Type 33 S 17.
Bowser Filter 200 G.H.P. complete with Pump and Motor.
Shriver and Sperry Plate & Frame Filter Presses; all sizes.

SEND FOR NEW 1961 STOCK LIST

FIRST MACHINERY CORP.

209-289 TENTH STREET, BROOKLYN 15, N. Y.

FMC Pays MORE For Your Surplus

PARKING ON THE PREMISES
Phone: STerling 8-4672
Cable Address: "EFFEMCY"

FMC

PHILADELPHIA

FOR THE FINEST IN PROCESS EQUIPMENT

SELECTED RECENT PURCHASES

1—HARDINGE 8' x 48" CONICAL PEBBLE MILL, AIR-SWEPT.
6—VALLEY 36" ALUMINUM P. & F. FILTER PRESSES, CLOSED DELIVERY, 65 CHAMBERS, HYDRAULIC CLOSURE.
1—STANDARD-KNAPP #429 T. & B. CASE GLUER.
1—RAYMOND 50", 5-ROLLER HI-SIDE MILL, DBL. WHIZZER.
5—SWEETLAND #12 FILTERS, (72) STAINLESS LEAVES.
1—ROTEX 40" x 84" DOUBLE-DECK SCREEN.
1—60" DIA. x 35 PLATE, T316SS BUBBLE-CAP COLUMN, 42' HIGH.
2—BIRD 24" x 38" CONTIN. CENTRIFUGES, T316 SS.
2—FRENCH OIL TYPE #2-S SCREW TYPE EXTRACTION PRESSES.
2—STAINLESS STEEL REACTORS, 200 GAL., JACKET & AGIT.
2—SHARPLES #C-20 SUPER-D-HYDRATORS, T316SS.
1—GRUENDLER 60 HP STAINLESS STEEL HAMMERMILL.
1—10 GAL. T304SS AUTOCLAVE, 1000# INT., JKT. & AGIT.

DRYERS

5—F. J. Stokes vac. shelf dryers, 195 sq. ft., 16 shelf.
5—BUFLOVAK 42" X 120" DRUM DRYERS, ASME 160#.
1—American 42" x 120" dbl. Drum dryer, ASME, stainless.
1—Buflovak 42" x 90" dbl. drum dryer.
1—AMERICAN 36" X 84" DBL. DRUM DRYER, ASME, VACUUM.
1—BUFLOVAK 5' X 12' SINGLE DRUM DRYER, VACUUM.
1—Buflovak 32" x 52" dbl. drum dryer, ASME 100# WP.
1—Buflovak 6' x 8' dbl. drum dryer, vacuum.
2—Buflovak Vacuum shelf dryers: 110, 98 sq. ft.
1—BUFLOVAK 5' X 30' T316 SS ROTARY VACUUM DRYER, ASME.
2—Hardinge 8'8" x 70' rotary dryers, ⅝" welded.
2—DAVENPORT 8' X 60' ROTARY DRYERS, 7/16" WELDED.
1—Louisville 4'6" x 25' rot. steam-tube dryer, welded.
1—Hardinge 4' x 30' rot. steam-tube dryer.
1—Bartlett 3' x 15' rotary dryer, overdur shell.
1—Wyssmont #6-18 tray dryer, 18 stainless trays.

MIXERS

1—Baker-Perkins #18, 300 gal. duplex jktd. shredder.
50—BAKER-PERKINS #17, 200 GAL. SIGMA JKTD. MIXERS.
1—Baker-Perkins #16, 150 gal. sigma jktd. mixer.
1—BAKER-PERKINS #15-UUMM, 100 GAL. DISPERSION MIXER, 100 HP, ASME JACKET, CORED BLADES, COMPRESSION COVER, MOTORIZED TILT.
1—J. H. Day #6 Cinc., 100 gal., sigma blades, Stainless.
2—Baker-Perkins #15, 100 gal., sigma jktd. mixer.
1—Read 100 gal., sigma blades, non-jacketed.
2—J. H. Day #5 Cinc., 75 gal., sigma blades.
2—W. & P. #14, 50 gal., sigma blades.
1—J. H. Day #2 Cinc., 20 gal, jktd., sigma blades.
2—Sturtevant #59B rotary blenders, Stainless.
3—Komarek 30" dia. x 14' long, horiz. dbl. paddle mixers.
1—Marco continuous Roto-feed mixer, Stainless.

STAINLESS STEEL TANKS

1—5700 gal. horiz., T304 SS, 6'4" x 24', UNUSED.
2—4500 gal. vert., T304 SS, 8' x 12', UNUSED.
1—4300 GAL. HORIZ. T304 SS, 6' x 20', DISHED HEADS, 50# WP.
1—3300 gal. vert., T304 SS, 6' x 14', dished heads.
1—3200 gal., vert., T304SS, 6'6" x 12', dished heads, coils.
1—3000 gal. vert., T304 SS, 6' x 15', coils, Vac.
3—2750 GAL. VERT., T316 SS, 7' x 8', DISHED HEADS, COILS.
1—2500 gal. vert., T316 SS, 7' x 7', dished heads, agit.
2—2300 gal. vert., T316 SS, 7' x 8', coils, agit.
4—2250 GAL. VERT., T316 SS, 7' x 6'3", DISHED HEADS.
1—2100 gal. vert., T316 SS, 6' x 9'10", cone bottom.
12—1750 gal. vert., T304 SS hoppers, 235 cu. ft.
1—1600 gal horiz., T304 SS, 5' x 11', dished heads.
6—685 gal. vert., T316 SS, 3' x 13'. coils.

EVAP. — EXCHANGERS — CONDENSERS

2—16,200 SQ. FT. QUAD. EFFECT EVAP., COPPER TUBES, CAST IRON BODIES.
1—MOJONNIER 2085 SQ. FT. TRIPLE EFFECT, T304 SS, WITH PREHEATERS.
1—BUFLOVAK 1025 SQ. FT. DBL. EFFECT, T304 SS, SIZE #8-50-D.
1—Buflovak 840 sq. ft. dbl. effect, T304 SS, size #7.5-42-D.
1—Buflovak 710 sq. ft., dbl. effect, T304 SS, size #7-35-D.
1—Buflovak 700 sq. ft. single effect, T304 SS, forced circ.
1—STRUTHERS-WELLS 630 SQ. FT. SINGLE EFFECT, T316 SS, CALANDRIA TYPE.
1—Buflovak 588 sq. ft. dbl. effect, T304 SS, size #6.5-29-D.
1—F. J. Stokes 118 sq. ft. single effect, T316 SS, U-tube still.
2—Rogers 6' dia. vacuum pans, T304 SS, int. coils.
1—1960 SQ. FT. T316 SS, HORIZ. EXCHANGER, ASME 75# WP.
1—1450 sq. ft. T316 SS vert. condenser, remov. bundle.
1—800 SQ. FT. T316 SS VERT. CONDENSERS, ⅝" OD TUBES.
1—730 sq. ft. T316 SS horiz. exchanger, remov. bundle.
6—691 SQ. FT. ANSONIA COPPER DOUBLE-PIPE COOLERS.
1—510 SQ. FT. T316 VERT. COND., REMOV. BUNDLE.
4—T316 SS exchangers-condensers: 427, 425, 410, 400 sq. ft.
10—T316 SS exchangers: 290, 277, 264, 250, 200, 185, 165, 150, 145, 105 sq. ft.
8—T316 SS exchangers, 83, 73, 54, 52, 50, 47, 30 sq. ft.
10—Enzinger 185 sq. ft. T304 SS contin.-flow exchangers.

PERRY EQUIPMENT CORP.
1407 N. SIXTH ST., PHILA. 22, PA.
Phone: POplar 3-3505

BRILL FOR VALUES

CENTRIFUGES

2—Sharples C-20 and C-27 Super-D-Hydrator, 316 S.S.
1—Bird 18"x28", Solid Bowl, Continuous, 304 S.S.
2—Bird 24" x 38" Solid Bowl Continuous 304 SS.
1—Bird 32" x 50", Solid Bowl, Continuous, 316 S.S.
1—Bird 36" x 50" solid bowl continuous, 347 SS.
3—Sharples PY14, PN14 Super-D-Canters 316 S.S.
2—Fletcher 48" Suspended 316 S.S. Perforated Basket.
2—Sharples #16, 304 S.S., 3 HP motor.

REACTORS — EVAPS — CONDS — TANKS

1—150 gal. 304 S.S. jacketed agitated Reactor.
3—Pfaudler 200 gal. glass lined jacketed Kettles.
1—300 gal. Hastelloy B jacketed kettle.
2—Glascote 500 and 300 gal. glass lined jacketed agitated Reactors, UNUSED, 125# internal, 90# jacket pressure.
1—650 gal. 304 S.S. Reactor with 100 sq. ft. Bayonet Heater.
1—550 sq. ft. Buflovak monel single effect Evaporator.
1—500 gal. S.S. Mixing Tank with nickel coils.
1—2,000 gal. horizontal 304 S.S. tank 5' x 12'.
2—1,000 gal. 304 SS Tanks 5'6" x 6'.
1—2,500 gal. vertical 304 SS Tank, 8' x 7'.
6—7500, 6000 and 2000 gal. Rubber Lined Tanks.
1—12,000 gal. horiz. steel Pressure Tank, 7'6"x36', 200 psi.
6—Stainless Heat Exchangers; 1220, 786, 536, 370, 315, 250 sq. ft.
1—24" dia. x 35', 304 S.S. Bubble Cap Column.

FILTERS

1—#5 Sweetland Filter 304 S.S. 120 sq. ft.
1—Oliver 6' dia. Horizontal Filter, 316 S.S.
1—Oliver 5' x 6' Steel Rotary Vacuum Precoat Filter.
1—U.S. 200 sq. ft. 304 S.S. Auto-Jet Filter.
1—Hercules 400 sq. ft. 304 SS pressure Filter.
1—Oliver 5'3"x8' Steel Rotary Vacuum, vaportite housing.
1—Feinc 5'x6' Stainless Steel Rotary Vacuum Filter.
1—Feinc 3' x 3' Stainless Steel Rotary Vacuum Filter.
2—#10 Sweetland Filters, 27 leaves, 4" centers, 250 sq. ft.
2—#12 Sweetland Filters 36 leaves, 4" centers, 500 sq. ft.
4—36" x 36" alum. P & F, 65 Chambers, 1-1/2 cake, hyd. clos.

DRYERS

1—Buflovak Vacuum Shelf with 20—60"x80" shelves.
7—40" x 43" shelves.
1—Devine Vacuum Shelf with 10—40"x43" shelves.
2—Buflovak 42"x120", atmospheric double drum Dryers, complete.
1—Buflovak 32" x 90" Atmos. Twin Drum Dryer.
2—Devine 4'x9', single drum, atmospheric.
1—Buflovak 3'x10' Rotary Vacuum Dryer.
1—Baker Perkins 5'6"x6' Rotary Vacuum Dryer.
2—Buflovak 5' x 30', 3' x 7'6" Rotary Vacuum Dryers 316 S.S.
2—Louisville Rotary Steam Tube 5'x25', 6'x35' 6'x50'.
2—Louisville 8'x50' Stainless Steel lined Rotary Dryers.
9—Rotary Dryers 34"x30', 4'x40', 6'x50', 6'x60', 7'x80', 8'x87'.
1—Traylor 30"x18' Stainless Steel Rotary Dryer.
2—Link Belt, 7'5"x25', 6'4"x24", S.S. Louvre Dryers.
2—Atmos. Tray Dryers, 16 shelves, 40"x24".
1—P&S 6' wide Apron Conveyor Dryer 48' long.

MIXERS

1—Farrel-Birmingham "Midget" Banbury Mixer.
2—Day Imperial 150 gal. jktd. double arm.
1—Baker Perkins 100 gal., jacketed, double arm, 30 HP.
1—Baker Perkins 50 gal. jacketed, double arm.
5—Day "Cincinnatus" double arm, 250 and 100 gal.
2—Steel jacketed Powder Mixers, 225 and 350 cu. ft.
1—Patterson 6' dia. Conical Blender 15 HP.
1—3' dia. Simpson Intensive Mixer.
1—4' dia. Lancaster Mixer 7-1/2 HP motor.
1—Patterson Kelly 150 cu. ft. Twin Shell Blender.

MISCELLANEOUS

3—Kinney Vacuum Pumps, 750 cfm, 1 micron, 15 HP.
2—5 and 2-1/2 million Dowtherm Furnaces.
1—Farrel Birmingham, 8" x 16", 2 Roll Chrome Plated Mill.
2—Hardinge 5' x 22" steel lined conical Ball Mills.
4—Mikro Pulverizers, #4TH, 1SH, 1SI and Bantam.
3—Abbe 2½' x 3' porcelain lined Pebble Mill XP motor.
1—Raymond 10" vert Mill, 10 HP.
1—No. 1 Ball & Jewell Rotary Cutter.
1—#18 Cumberland Rotary Cutter.
3—Swenson Walker Continuous Crystallizers, 24" x 30' sections.
2—#842 Rotex Sifters 60" x 84" double deck.
1—#24 Rotex Sifter, 20" x 64", Quadruple deck.

Partial List of Values — Send for Complete Circular
TEXAS OFFICE: 4101 San Jacinto Street, Houston 4, Texas — Tel.: JAckson 6-1351

BRILL EQUIPMENT COMPANY
35-61 JABEZ ST., NEWARK 5, N.J. Tel.: MArket 3-7420

EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

1—Stokes stainless steel jacketed rotary vacuum dryer, 2' x 6'.

2—Theo. Walters Hastelloy B, 300 gal. jacketed reactors.

1—Pfaudler 750 gal. glass lined jacketed reactor, complete with agitator and drive.

1—Struthers Wells type 316 SS 2000 gal. jacketed reactor, complete with agitators and drive.

5—Pfaudler glass lined jacketed reactors, 30 to 300 gal., complete with agitators and drives.

2—Pfaudler glass lined vacuum receivers, 20 and 30 gal.

1—Buflovak stainless steel jacketed rotary vacuum dryer, 3' x 15'.

16—Kinney 2 stage vacuum pumps, Model KMB-1200 and KDH-130.

1—Stokes single door vacuum shelf dryer with six shelves 24" x 36".

2—Louisville stainless steel rotary dryers, 8' x 50'.

1—Allis Chalmers stainless steel rotary dryer, 6' x 50'.

2—Sturtevant stainless steel #7 dustite rotary batch blenders, NEW.

2—Bonnet rotary kilns, 8' x 115', complete with motors and drives.

1—Bonnet steel rotary cooler, complete with motor and drive, 8' x 50'.

1—American 42" x 120" double drum dryer with drive and motor.

1—Stewart Bolling 2 roll mill, chrome plated rolls, 8" x 16".

1—Raymond 2 roll high side roller mill, complete with oil journals.

1—Williams "Comet" 4 roll mill, complete.

10—Robinson stainless steel double ribbon blenders, 125 cu. ft.

1—Stokes stainless steel rotary vacuum dryer, 3' x 15'.

5—Robinson stainless steel double ribbon horizontal blenders, 255 cu. ft.

1—Gemco double cone conical blender, 40 cu. ft.

1—Baker Perkins SS double arm sigma blade mixer, 9 gal.

1—Baker Perkins Size 16 UUEM jacketed mixer, double arm dispersion type, complete with compression cover and 100 HP motor, 150 gal. capacity.

1—Baker Perkins Size 15, 100 gal. stainless steel jacketed double arm sigma blade mixer.

8—Tolhurst 30" and 40" center slung rubber covered centrifuges, with perforate baskets and motors.

7—Western States 40" type 316 SS suspended type centrifuges, complete with perforate baskets, plows and 40 HP motors.

1—Ross 6" x 14", 3 roll paint mill, high speed complete.

3—Mikro pulverizers, Model #1SH and #2TH, complete.

2—Mikro pulverizers, SS #3TH, complete with 40 HP motors.

20—Davis Engineering stainless steel heat exchangers, 102, 119, 136 and 166 sq. ft., NEW.

1—Hersey stainless steel rotary dryer, 3' x 20'.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

EQUIPONOMICS

BIRD Continuous Centrifuges 18" x 28" 316 S.S. (1952) 15 H.P. Washing

OLIVER VACUUM FILTER—S.S. 316, 3'x8'
COLUMN S.S. 4' D x 65' high, 55 plates.
TANKS S.S. 304, 2500 gal. 7' x 8' new.
MIKROPULVERIZER—2TH—7½ H.P.
KNEADER MASTER — Paterson 2½ gal. vac., jack., variable speed (Inf.)
HEAT EXCHANGERS S.S., 60 to 2300 sq. ft.
CENTRIFUGE—Tolhurst 40" rubber lined, centerslung, 5 H.P.
SPARKLER FILTER—Steel, Model 33-17.

PROCESS PLANTS SERVICE, INC.
287 Central Ave., Clark, N.J. Tel. FUlton 1-1183-4

BEST BUY

GAYCO SEPARATOR
IN STOCK
4' diameter Whizzer Air Separator with enclosed drive. Excellent condition.
IMMEDIATE DELIVERY

ME MACHINERY AND EQUIPMENT CO.
123 Townsend St., San Francisco 7, Calif.

ECH SPECIALS

Blaw Knox SS 100 gal. Autoci Agtd. 1000 PSI.
Bird 18"x28" Continuous Cent. Filter.
Fractionating Column 316 SS, 2½'x22'.
Oliver 316 SS Filter 6' dia., 25 sq. ft. cap.
Pfaudler 1500 gal. Glass Tank; closed top.
Simpson 18" Lab. Mix Muller with ¾ mtr.
Abbe 5'x6' Jktd. Ball Mill, chr. mang. steel.
Cavagnaro sig. arm 200 gal. SS Mixer, 75 hp.
Mikro #1W Ni-resist metal, 5 hp, TEFC mtr.

WE BUY COMPLETE PLANTS OR SINGLE UNITS
New Machinery Div. for New Fabrications
Tel. SOuth 8-4451—4452—8782
YOU CAN BANK ON

Equipment Clearing House, Inc.
111 33 Street, Brooklyn 32, N.Y.

2—OLIVER PRESS PRECOAT FILTERS 5'3"—Type 316 S.S.

4—RIBBON BLENDERS, 2500 gal., 1200 gal.

2—AUTOCLAVES S.S., 50 gal. 2000 lb., 3½ gal., 2000 lb.

1—DRUM DRYER, Proctor & Schwartz.

4—COLLOID MILLS, 5 HP EX PR., 15 HP, 40 HP.

Machinecraft Corporation
800 Wilson Avenue, Newark 5, New Jersey
Mitchell 2-7634

MIXERS—3 qt. Read Double Sigma, 3 gal. Day Pony, 12 gal Double Sigma, 13 gal. Lancaster, 15 gal. Bramley (jack/vac), 22 cu. ft. Day Ribbon, 40 gal. S/S day Pony.

SCREENS—Single, Ajax 12 x 74 (S/S), Tyler 3' x 5', Gyrocentric 28 x 27 & 36 x 36 S/S, Roball 40 x 84, Double Rotex 20 x 96, 40 x 66, Tyler 3' x 5', Triple Rotex 20 x 84".

NASH HYTOR COMPRESSORS — 62 GPM MD623 (20HP) Bronze & 215 CFM #1253 (60HP) Iron.

PUMPS — POSITIVE — 1-¼" Blackmer, 1-¼" Viking, 2" Roper, #3600, 4" Viking (15HP), 4" Blackmer (25HP) unused.

AIR SEPARATOR—Gayco 30", Sturtevant 36", Gayco 5', w/motors & Vee drives.

DUST COLLECTORS — Pangborn CDI (800CFM), Mikro 36-1-84 (unused), Sly H-459-D (748 sq. ft.).

LAWLER COMPANY
LAWLER PLACE METUCHEN, N.J.
LIBERTY 9-0245

BUY with Confidence

OUTSTANDING MACHINERY-RIGHT NOW! WHEN YOU NEED IT!!

1—40" rubber lined suspended centrifuge.

3—Mikro pulverizers models 3-TH, 2-TH, 1-SH.

5—Lee 300 gallon stainless steel jacketed kettles.

1—Williams "Zenith" 3 roller mill.

5—F. J. Stokes tablet presses Models R, T, F, BB-2, RD-1.

5—Burrstone pebble mills 400, 250, 125, 100, 50 gallons.

4—High speed 3 roll mills 14" x 30", 9" x 24", 6" x 14", 4½" x 10".

1—F. J. Stokes vacuum shelf dryer Model 138-B, Stainless steel shelf.

2—Fitzpatrick Comminuting machines Models D & K.

1—Porter 4'6" double cone blender, 28 cu. ft.

1—Patterson Kneadamaster 25 gallon capacity, 30 HP.

3—J. H. Day pony mixers 40, 15, 8 gallons.

Write or Phone Your Inquiries

chemical & process machinery corp.
52 Ninth St.
Brooklyn 15, N.Y.
HYacinth 9-7200

CHOICE EQUIPMENT

2—Sparkler 14" & 8" Stainless Steel Filters.
5—Hercules 16" & 8" Square Stainless Steel Filters.
1—Homo Mixer 1 HP XP Motor.
1—Charlotte ND20—S.S. Colloid Mill—XP Motor.
4—Worthite S.S. Pumps—8" x 6", 3" x 2", 2½" x 2".
1—Stainless Steel 30 gal. Autoclave 1000 psi w/Jacket & Agitator w/XP Motor.
1—Cyclotherm Package Boiler 250 psi, 600# hr.—20 HP.
4—Stainless Vacuum Receivers 50 to 300 gals.
1—Horiz. Closed Spiral Mixer, 3' x 12', Jack.
3—Spiral Blenders, 800 to 2000#.
1—Day Stainless Steel Blender 2000#.
1—Patterson 5' x 6' Jack. Ball Mill, 25 HP.
1—Day 50 gal. S.S. Sigma Blade Mixer.
1—N.J. MX Pony Labeler.
1—Raymond 36" Whizzer Separator.
5—Rotex Screens 20" x 38" to 60" x 84"
1—Kent High Speed 3 Roll Mill 13" x 32".
2—Combs Type V Gyrators—20"—XP Motors.
1—Devine Vac. Shelf Dryer, 10 shelves, 40 x 43.
1—Kent 20 Gal. Gearless Pony Mixer.

Send Us Your Inquiries.
We Buy Your Surplus.

THE MACHINERY & EQUIPMENT CO
91-93 New Jersey R.R. Ave., Newark 5, N. J
Market 3-3103

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)
ALL CLASSIFIED ADVERTISEMENTS—$8.00, thirty-six words or less; $1.50 for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication

Send replies to ads with box numbers to
OIL, PAINT AND DRUG REPORTER, 30 *Church St., New York 7, N. Y.*

BUSINESS OPPORTUNITIES

Chemical Manufacturing, distribution or export-import business wanted for consolidation. Will retain personnel. Principals only. Replies held in strictest confidence. OPD 193.

Wanted: To purchase a chemical manufacturing plant, paint, soap or any other allied product. New York area preferred. Give all particulars. We are principals. OPD 194.

Sales Potential: Industrial solvent-chemical formulator, distributor. Bulk plant, equipment, warehouse, trucks, aggressive sales force. Desires additional products to market to southern industry. Must be volume or good margin products. Distributorship or agency required. Memphis headquarters. OPD 195.

Venture Opportunity for compounder or promoter who can manufacture patented tobaccoless cigarette. Tar-free charcoal leaf, whitened and exceptionally well flavored. Totally synthetic. Formulators challenge for high volume product Simple ingredients and process. Completely new commodity. OPD 196.

For Sale: Small manufacturing facility for line of paint sundry items with proven formulations. Ideal opportunity for concern with established label and trade acceptance to expand line. OPD 192.

Are you interested in European common market? Old established West German chemical and pigment producer owns large industrial tract on Rhine looking for American manufacturer with funds to match theirs in joint venture. OPD 186

ALUMINUM CONDENSER, 350 sq. ft.
4—24" FILTER PRESSES, S.S. fittings, wood frames.
LAPP FITTINGS, VALVES.
Continuous Stripping COLUMN 2x13.
ALUMINUM EVAPORATOR, Calandria type, 1300 sq. ft.
BLENDER—Double Cone, 70 cu. ft.
Ribbon Blenders, Hydraulic Pumps.

MACHINECRAFT CORP.
808 Wilson Avenue, Newark 5, New Jersey
Mitchell 2-7634

LOOK HERE!
COMPARE THESE PRICES

RAYMOND #1 AUTO. PULVERIZER
Complete with Raymond 5' 6" diameter Double Whizzer Separator.
PRICED TO SELL
Wire or phone collect—GA 1-1380
ME MACHINERY AND EQUIPMENT CO.
123 Townsend St. · San Francisco 7, Calif.

Wanted to purchase small established chemical company to be used as a neucleus framework —also interested in buying spin-off items. OPD 188.

EQUIPMENT OFFERED

For Sale Stainless Steel Pipe and Tube new and for re-use from ⅛" to 6" at fraction of warehouse price. Plant Supply Co. 75 West St. New York 6, N. Y. WH 4-3482.

Can Securing Clips. Sealwell new design form-fitting clips have 5 individual gripping points of contact and fit all standard and non-standard cans from half pint to two gallons. Exceed postal requirements and require less clips per can. Also clips for open top full friction cans. Samples and prices from Sealwall Products, Lake Avenue Elyria, Ohio.

For Sale 27 ft. portable conveyor, farquar endless belt type 18" wide, variable tilt, complete with 5 HP motor, good condition, phone K. O. Halstead, Davies Nitrate Co., Inc. New York City, RE 2-6095.

For Sale: Four stainless steel Double Effect Evaporators, Blaw-Knox Co. (Buflovak) 608-708-840-1025 sq. ft. each; 5000 gal. stainless Tank; 3000 and 900 gal. stainless Tanks with coils for full vacuum; 46" and 26" Suspended Centrifuges; Best Equipment Co., 1737 Howard St., Chicago 26, Illinois.

MATERIALS OFFERED

By-product Acetic Acid, high quality; recovered acetone, water-white; low, medium and high boiling mixed acetate. OPD 187.

Closing out stock of 250 drums orthodichlorobenzine 25% below market. Gotham Industries Inc., 1177 Broadway, New York City.

SERVICES OFFERED

High Vacuum molecular distillation for large quantity runs on a toll basis. Separations without thermal hazard. Molecular Distillations, Inc., 527 Madison Avenue, New York 22, Tele: PLaza 3-6527

Literature search: synthesis, manufacturing, application of organic and industrial chemicals. Chemical research, development: organic chemicals, surfactants. Application research. Formulation: chemical specialties, syndets, cleaners, emulsifiers. Chemical Information and Research Bureau, 59 Van Duyne Ave., Wayne, N. J.

1—Proctor & Schwartz 5 unit single Conveyor Dryer with stainless steel apron. Can be inspected in operation.
1—200 gallon Stainless Steel jacketed Vacuum Mixer, dbl. naben cored blades, hyd. tilt, with 75 h.p. 2 speed ex. proof motor.
1—Stokes #294 single punch Tablet Press. 60 ton top and bottom pressure. With 7½ h.p. vari-drive.
1—Buflovak 5x12' Vacuum Drum Dryer, chrome plated drum, Stainless Steel housing. With collector and drive and motor.
2—Stokes DDS2 Rotary Tablet Machines with motor and vari-drive.

BILL WOLF, Inc.
2708 CAROL ROAD UNION, N.J.
MUrdock 6-8883

— WANTED FOR CASH —
Off Spec. Job-Lot Discontinued } — { Glycols (Any Type) • Plasticizers • Vegetable—Animal Oils
SURPLUS Used or Spoiled } { Solvents • Chemicals • Raw Materials & Finished Goods
Drum Lots to Tanker Lots . . . Any Quantity
Don't Throw Away Materials Which Are Seemingly Useless . . See Us First ! !
HIGHEST SPOT CASH PRICES PAID
CHEMSOL, INC., • 74 Dod Street Elizabeth 3, New Jersey • FLanders 1-2020

ITALIAN middle size pharmaceutical industry endowed with up-to date plants for chemical organic syntheses, is looking for co-operation for the manufacture in Italy on license of raw-materials for the pharmaceutical industry, exchange of know how and experiences. ***Please write to***
CARLO FORTI • P. O. Box 744, Milano, Italy

we will buy your...
SURPLUS CHEMICALS
SOLVENTS • WAXES • OILS
RESINS • DRUGS • COLORS
WIRE OR PHONE FOR IMMEDIATE ACTION
All offers held in strictest confidence
Barclay CHEMICAL COMPANY, INC.
77 VARICK STREET NEW YORK 13, N.Y. WO 6-4533

Camphor From Formosa Under Antidumping Probe

Imports of refined camphor from Formosa (Taiwan) are under investigation by the Bureau of Customs.

A complaint lodged with the agency alleges that the product is being sold in the US at less than its "fair value" in violation of the antidumping law.

Customs inspectors have been instructed to withhold appraisements of all further entries of refined camphor from this source until an investigation of the charges has been completed.

Hercules Expansion Plans

—Continued from page 5

late unit at Burlington, N. J., and missile propulsion facilities at Bacchus, Utah.

The $50 million—some $9 million under Hercules' all-time-high 1960 expenditures —will not be generated internally. This means that additional funds needed will be borrowed under revolving bank credit.

Here is Hercules' analysis of its 1960 sales of $336.9 million: protective coatings, 14 percent; paper, 14 percent; military, 9 percent; plastics, 8 percent; agricultural chemicals, 7 percent; mining and quarrying, 7 percent; rubber, 7 percent; synthetic fibers, 3 percent; petroleum, 3 percent; food, 3 percent; adhesives, 3 percent; ink, 3 percent; construction, 2 percent; miscellaneous, 17 percent.

Dietary Chemicals

—Continued from page 4

previously been given GRAS clearance by FDA for certain uses, some of them being chemicals used in packaging materials where migration to foods occurs.

Others on the list, though never cleared by FDA, are said to be closely related to materials which have been declared GRAS in foods or in packaging materials.

All of the substances, says PMA, generally have been used by drug producers for periods ranging from five to twenty-two years without any evidence of complaint from toxic effect.

With only a few exceptions, the chemicals are used in very small amounts, just a few milligrams of the chemical appearing in the maximum daily dose as reported, PMA adds. Exceptions are those chemicals used as diluents.

Obituaries

Dr. Francesco Giordani, eminent Italian chemist who helped lay the groundwork for Euratom, the six-nation European nuclear energy community, died January 24 in Naples. He was sixty-four years old.

John A. Hanson, jr., comptroller for the Barrett Division of Allied Chemical Corporation, New York, died January 26 in New York. He was thirty-seven years old.

Louis R. Kessler, vice-president of operations for Owens-Corning Fiberglass Company, died January 20 in Warwick, Ga. He was fifty-one years old.

Edouard J. W. Egger, regional manager for Linde Company, a division of Union Carbide Corporation, died January 22 in Bellevue, Pa. He was sixty-three years old.

FOR SURPLUS DISPOSAL —
ONE NAME STANDS OUT . . .
SELL NOW!
AVOID SPOILAGE
RAW MATERIALS
FINISHED PRODUCTS
COMPONENTS
MACHINERY
SINGLE ITEMS
ENTIRE PLANTS
WASTES
RESIDUES
BY-PRODUCTS
OUR 36th YEAR
Chemical Service Corporation
88 BEAVER ST., NEW YORK 5, N. Y.
Tel. HAnover 2-6970
Cable address "RETORTS" N. Y.

HERSEY 5' x 26'
ROTARY STAINLESS DRYER
DAY HY-R SPEED MILL
NEW 4000 Gal. STAINLESS TANK

CENTRIFUGALS—12" 30" 40" & 48".
CENTRIFUGES—Sharples #5 & 6 S.S.
DRYERS—Hersey 5' x 26' Rotary Stainless
Buffalo 32" x 90" Double Drum Dryer
Buffalo Vac. Drum Dryer 24" x 20".
Despatch Ovens Elec. Heated.
3—Devine & Stokes Vac. Shelf Dryers.
FILLERS—Powder & Liquid. Also Labelers.
FILTERS—#2 Sweetland 12 Stainless covered leaves.
Ertel 6" & 10" Disc type.
FILTER PRESSES—6" to 36" Iron & Wood.
KETTLES—Stainless Jack. 20 to 500 gals.
Dopp 350 gal. Cast Iron Jack. Vacuum.
Devine Impreg. Units 30" & 36" dia.
Steel Alum & Copper 5 to 2,000 gals.
MILLS—Raymond #00 Pulverizer 30 HP complete. Also #0000.
Mikro Pulverizer #4, 2S1, 2TH, 1SH.
Hammer Mills & Pulverizers 3 to 50 HP.
Williams #3 & #2XX Hammer Mills.
Taylor-Stiles 7½ HP Cutter.
Rotary Cutters 1 HP & up.
Sprt-Wald Stainless Spike Crusher.
Pebble, Jar & Ball Mills, Lab to 6' x 8'.
3 Roll, 9" x 24", 12" x 30", 16" x 40".
Lehmann 4 Roll W. C. 12" x 36" Steel.
MIXERS—Baker Perkins 100 gal. Jack.
B. P. 15 HP—Masticator Mixer.
Day Imperial 75 & 150 gal.
Change Can Mixers 8, 15, 40, 80 gal.
Day Jumbo 700 gal. horiz. Mixer.
Sprout-Waldron 10,000# horiz. Spiral Mixer.
Blystone 3000# horiz. spiral Mixer.
Day 1000# horiz. Dry ribbon Mixer.
Dry Spiral Mixers 50 to 10,000#.
Lancaster 6' dia. 25 HP & #1, 3 HP.
PUMPS—Vacuum 10 to 500 CFM.
Gould 75 HP Centrifugal 250 PSI.
SIFTERS—Day, Robinson Rotex type.
SOAP MACHINERY—Toilet, Laundry, etc.
TABLET MACHINES—Colton 4½ T.
Stokes R single punch & RD4 rotary.
TANKS—Stainless, GL., Lined, Steel.
MISC. Boilers Gas & Oil. Conveyors.

Partial Listings — Write for Bulletins

STEIN EQUIP'T CO.
107 8th St., Brooklyn 15, New York
STerling 8-1944

FOR THE BEST IN USED EQUIPMENT

Conical Dry Mixer 192 cu. ft. vol.; 125 cu. ft. opr. vol., with 15 H.P. Unibrake Motor.
4—Werner & Pfleiderer 200 gal. jktd., sigma blade Shredders.
1—Ball & Jewell #2 Cutter.
4—Link-Belt Vibrating Screens 4' x 8'.
1—Jeffrey Vibrating Conveyor.
1—30" Sperry Filter closed del., 3-eye, 39-plates, 40-frames.
1—42" Sperry Filter 40-plates, 41-frames, hyd. closing, open del.
1—International Ball Mill, porcelain lined, 48" x 60", 15 H.P. Unibrake Motor, 2-drums balls. Like new.
1—Schutz-O'Neill Pulverizer 22", Style D.
1—Abbe Pebble Mill 5' x 22'.
1—Sparkler Filter 33-S-28, with Scavenger Plate, steam jacketed.
1—2 qt. Sigma Blade S.S. Mixer.
1—250 gal. S.S. Kettle, nickel jacket, 100#.
1—Patterson Steam Jkt. Ball Mill 42" x 36" dia.
1—430 S.S. Tank 3000 gal. vert. ⅜ plate, with 2 pc. cover.
2—Vacuum Pumps, Gardner-Denver, 5" bore 4" stroke, with 7½ H.P. motors.
1—#316 S.S. Reactor 265 gal. jkt.
2—Twin Screw Mixers 120 gal. jkt.
2—Aetna Water Stills 20 gph, new.

Large stock of new and used H.P. Boilers, Tanks, Pumps, Heat Exchangers, Freon Compressors, Stainless Steel & Brass Valves. Advise us as to your requirements.

H. LOEB & SON :-: 4643 LANCASTER AVE., PHILADELPHIA 31, PA.

VACUUM PUMPS
50
115 CFM 5 HP motors 3/60/220/440 10 MICRONS Vee drive
BEACH RUSS MODEL RP
$675.00 each — as removed from service
$975.00 each — reconditioned and guaranteed.
Buy these from:
LAWLER COMPANY — Metuchen, N. J. — Liberty 9-0245

IMPORTS at United States Ports

New York

ACETIC ACID—20 dms, Faljek Products Co, Rotterdam
ACONITE ROOT—50 bgs, S B Penick & Co, Rijeka
AGAR—50 bbls, Irving Trust Co, La Coruna
40 dms, Contall Co, Santander
100 cs, S B Penick & Co, Pusan
ALUMINUM HYDROXIDE, GEL—50 cs, Leading Forwarders, Marseille
ALUMINUM OXIDE—90 bgs, Cabot Corp, Hamburg
AMBRETTE SEEDS—70 bgs, La Libertad
AMMONIUM PERSULFATE—113 dms, Riches Nelson, Rotterdam
AMMONIUM SULFATE—196 bgs, National City Bank, Hamburg
ANILINE DYES—265 dms, Geigy Chemical Corp, Bremerhaven
16 dms, Sandoz Inc, Havre
33 dms, Carbic Hoechst Corp, Rotterdam
12 dms, Geigy Chemical Corp, Hamburg
10 dms, L & R Organic Products Co, Rotterdam
26 dms, H Bruckmann & Lorbacher, Bremen
37 dms, Sandoz Inc, Rotterdam
42 dms, Rotterdam
ANNATTO SEED—260 bgs, Chase Manhattan Bank, Matarani
250 bgs, Fortaleza
ANTIMONY REGULUS—725 cs, Metal Chemical Commercial Corp, Rijeka
952 cs, Rijeka
ARABIC GUM—650 bgs, T M Duche & Sons, Port Sudan
1,500 bgs, Morningstar Paisley Inc, Port Sudan
608 bgs, Nehls & O'Connell, Port Sudan
300 bgs, Colony Import & Export Corp, Port Sudan
308 bgs, P A Dunkel, Port Sudan
ASBESTOS FIBER—2,250 bgs, Johns Manville Corp, Lourenco Marques
2,700 bgs, Johns Manville Corp, Durban
BARIUM CHLORIDE—400 bgs, Trieste
BARIUM SULFATE—189 cs, Picker X-Ray Corp, London
BARYTES—660 bgs, Landers Segal Color Co, Bremen
BONE—258 bgs, K Mayer, Bowen
272 bgs, K Mayer, Brisbane
CADMIUM OXIDE—110 dms, Antwerp
CALCIUM LACTATE—20 bgs, Copenhagen
CAMPHOR POWDER—85 cs, Hanover Bank, Keelung
CARNAUBA WAX—234 bgs, Cornelius Wax Refining Corp, Fortaleza
469 bgs, Frank B Ross, Fortaleza
126 bgs, National City Bank, Tutoia
188 bgs, Bank of London & S A, Tutoia
251 bgs, Chase Manhattan Bank, Tutoia
250 bgs, First National Chicago, Tutoia
438 bgs, Bankers Trust Co, Tutoia
188 bgs, Colonial Trust Co, Tutoia
222 bgs, M Argueso & Co, Fortaleza
126 bgs, Tutoia
CASEIN—500 bgs, N Y Sancor Corp, Buenos Aires
500 bgs, P A Dunkel, Buenos Aires
287 bgs, F H Paul & Stein Bros, Oslo
1,000 bgs, E Lang, Buenos Aires
1,000 bgs, Buenos Aires
CASHEWNUT SHELL LIQUID—100 tons, Minnesota Mining & Manufacturing Co, Fortaleza
84 dms, Bowring & Co, Cochin
CASTOR OIL—498 tons, Chemical Bank, Rijeka
300 tons, Irving Trust Co, Fortaleza
200 tons, Brazil Oiticica Inc, Fortaleza
300 tons, Anderson Clayton & Co, Santos
249 tons, Wallace & Tiernan, Rijeka
240 tons, Recife
CELERY SEED—255 bgs, Fritzsche Bros, Bombay
21 bgs, Louis Furth, Bombay
174 bgs, Hismoco American Co, Bombay
212 bgs, M J Golombeck, Bombay
182 bgs, Bombay
CITRONELLA OIL—25 dms, George Uhe Co, Keelung
50 dms, Maufacturers Trust Co, Keelung
25 dms, International Flavors & Fragrances Inc, Keelung
50 dms, Ludwig Mueller, Keelung
80 dms, Holland Colombo Trading Society, Keelung
100 dms, L A Champon & Co, Keelung
25 dms, Givaudan Corp, Keelung
25 dms, Centflor Manufacturing Co, Keelung
10 dms, Lo Curto & Funk, Keelung
COCONUT OIL—585 tons, American Trust Co, Cebu
260 tons, Pacific Vegetable Oil Corp, Manila
117 tons, Fallek Products Co, Rotterdam
485 tons, American Trust Co, Zamboanga
300 tons, Bank of America, Zamboanga
COMFREY ROOT—12 bls, S B Penick & Co, Rijeka
42 bls, Rijeka
COPAL GUM—68 bgs, O G Innes Corp, Manila
125 bgs, Rotterdam
CORIANDER SEED—300 bgs, Levy & Levis Co, Casablanca
445 bgs, Ideal Trading Co, Rijeka
CORN OIL—200 tons, Corn Products Co, Rotterdam
CORN STARCH—2,130 bgs, Impex Agricultural Co, Rijeka
250 bgs, Rotterdam
CREAM OF TARTAR—200 bgs, T M Duche & Sons, Leghorn
182 bbls, Barcelona
CRESYLIC ACID—59 dms, Van Oppen & Co, Avonmouth
CUBE POWDER—490 bgs, Foreign Domestic Distributors, Callao
DAMMAR GUM—30 cs, S Winterbourne & Co, Bangkok
140 cs, G Innes Corp, Singapore
DEGRAS—24 dms, Crystal Extract & Chemical Co, Melbourne
194 dms, Malmstrom Chemical Corp, Melbourne
72 dms, Silvey Shipping Co, Melbourne
DEXTRIN—485 bgs, Morgan Guaranty Trust Co, Rotterdam
1,074 bgs, Stein Hall & Co, Rotterdam
284 bls, Morgan Guaranty Trust Co, Rotterdam
600 bgs, Morningstar Paisley Inc, Rotterdam
700 bgs, Rotterdam
EARTH COLORS—500 bgs, Naftone Inc, Bremen
FENNEL SEED—82 bgs, Levy & Levis Co, Bombay
78 bgs, Bombay
FILTER CLAY, SPENT—84 bgs, Koster Keunen, Rotterdam
FORMIC ACID—50 dms, Rotterdam
GALLNUTS—200 bgs, J H Lowenstein, Izmir
GAMMA ACID—31 dms, Atlantic Chemical Corp, Rotterdam
GHATTI GUM—55 bgs, P A Dunkel, Bombay
49 bgs, Meer Corp, Bombay
GINGER—50 bgs, Van Lean & Co, Kingston
56 bgs, Mincing Trading Corp, Kingston
GLUE—400 bgs, F H Cone, Bremen
GLYOXAL—27 dms, D F Jones, Marseille
GRAPHITE—250 bgs, Joseph Dixon Crucible Co, Colombo
250 bgs, C Pettinos, Colombo
35 bgs, Eagle Pencil Co, Hamburg
GUAR GUM—754 bgs, J L Quesada, Valencia
2,400 bgs, Stein Hall & Co, Calcutta
GYPSUM, CRUDE—10,017 tons, U S Gypsum Co, Hantsport
HALIBUTLIVER OIL—40 dms, Arista Oil Products Corp, Yokohama
IODINE, CRUDE—60 kgs, Chase Manhattan Bank, Yokohama
50 dms, Bunge Corp, Yokohama
JUNIPER BERRIES—167 bgs, Irving Trust Co, Leghorn
LAVANDIN OIL—23 dms, Tombarel Products Corp, Cannes
LEMONGRASS OIL—24 dms, Maywood Chemical Works, Cochin
60 dms, International Flavors & Fragrances Inc, Cochin
12 dms, Cochin
LOCUST BEAN GUM—250 bgs, Chase Manhattan Bank, Rotterdam
25 dms, Chase Manhattan Bank, Rotterdam
200 bgs, P A Dunkel, Rotterdam
40 bgs, Meer Corp, Lisbon
890 bgs, J L Quesada, Valencia
MAGNESITE—200 bgs, Smith Chemical & Color Co, Rotterdam
MAGNESIUM SULFATE—500 bgs, Independent Chemical Corp, Hamburg
MARJORAM LEAVES—100 bls, Louis Furth, Marseille
106 bls, M J Golombeck, Marseille
MENTHOL—85 cs, J Manheimer, Muroran
65 cs, Magnus Mabee & Reynard, Keelung
20 cs, P A Dunkel, Keelung
26 cs, Norda Essential Oil & Chemical Co, Keelung
MENTHOL—10 cks, Biddle Sawyer Corp, Marseille
60 cs, American Far Eastern Syndicate, Santos
79 cs, Keelung
MERCURIC-AMMONIUM CHLORIDE—10 dms, Gallard Schlesinger, Southampton
MERCURIC OXIDE, YELLOW—60 bbls, Rijeka
MERCURY—150 flks, Trieste
250 flks, Rijeka
MOLASSES—805 tons, Pacific Molasses Co, Salaverry
1,163 tons, Rotterdam
MONOCHLOROACETIC ACID—250 dms, Hamburg
MONOSODIUM GLUTAMATE—200 dms, Ajinomoto Co, Yokohama
MUSK, ARTIFICIAL—10 dms, Roure-Dupont Inc, Rotterdam
MUSTARD SEED—4,000 bgs, R T French, Copenhagen
NAPHTHALENE—600 bgs, Gallard Schlesinger, Hamourg
1,340 bgs, Toms River Chemical Corp, Rotterdam
1,000 bgs, Rotterdam
NIACIN—40 bbls, Fallek Products Co, Genoa
NUTMEG—130 bgs, M J Golombeck, Singapore
257 bgs, P H Petry, Hamburg
20 bgs, A G Dunn, Port of Spain
42 bgs, J H Elton, Singapore
175 bgs, Irving Trust Co, Singapore
30 bgs, Singapore
OCOTEA CYMBARUM OIL—48 dms, Stein Hall & Co, Itajai
OPIUM—100 cs, N Y Quinine & Chemical Works, Calcutta
250 cs, Mallinckrodt Chemical Works, Calcutta
OREGANO LEAVES—221 bgs, H Marmorek & Son, Tampico
200 bgs, Louis Furth, Piraeus
300 bgs, M J Golombeck, Piraeus
PAPAIN—50 cs, Bemo Shipping Co, Colombo
PAPRIKA—400 bgs, Kalmazoo Spice Extraction Co, Rijeka
200 bgs, Glidden Co, Hamburg
200 bgs, Sokal & Co, Hamburg
1,000 bgs, M J Golombeck, Hamburg
PEPPERMINT PACK—160 bgs, Internatio Rotterdam, Cochin
160 bgs, Kellys America Ltd, Cochin
240 bgs, A G Dunn, Cochin
80 bgs, C Czarinkow, Cochin
80 bgs, C M Van Sillevoldt, Singapore
290 bgs, Delano Corp of America, Singapore
70 bgs, East India Trading Co, Singapore
210 bgs, A G Dunn, Singapore
80 bgs, Max Van Pels, Singapore
80 bgs, J Berlage, Alleppey
160 bgs, Mutual Spice Co, Alleppey
320 bgs California Commodities Corp, Alleppey
160 bgs, C M Van Sillevoldt, Alleppey
240 bgs, A G Dunn, Alleppey
160 bgs, Allana Texport Corp, Alleppey
160 bgs, M J Golombeck, Alleppey
400 bgs, East India Trading Co, Alleppey
160 bgs, Reliable Mercantile Corp, Alleppey
160 bgs, East India Trading Co, Cochin
720 bgs, Ludwig Mueller, Alleppey
160 bgs, K H Landes & Co, Alleppey
560 bgs, Singapore
800 bgs, Alleppey
PEPPER, RED—300 bgs, California Commodities Corp, Yokohama
200 bgs, Berns & Koppstein, Yokohama
100 bgs, Mincing Trading Corp, Yokohama
100 bgs, Kellys America Ltd, Yokohama
100 bgs, Louis Furth, Kobe
160 bgs, Lagos
PERCHLOROETHYLENE—125 dms, International Selling Corp, Marseille
PHENANTHRENE—50 dms, Rotterdam
PHENYL TRIMETHYLAMMONIUM CHLORIDE—10 dms, Hoffmann-La Roche Inc, Hamburg
a-PICOLINE—27 dms, Antwerp
157 dms, Rotterdam
PIMENTO LEAF OIL—1 dm, D W Hutchinson & Co, Kingston
12 dms, Norda Essential Oil & Chemical Co, Kingston
POLLACKLIVER OIL—5 dms, Arista Oil Products Corp, Yokohama
POLLACKLIVER OIL, CONCENTRATE—2 dms, Arista Oil Products Corp, Yokohama
POLYETHYLENE—309 bgs, Dorf international, Capetown
POLYVINYL CHLORIDE—2,600 bgs, General Wire & Cable Co, Yokohama
POLYVINYL CHLORIDE RESIN—4,000 bgs, Lewis Specialties Ltd, Yokohama
1,000 bgs, Nichimen Co, Nagoya
POPPYSEED—200 bgs, Ideal Trading Co, Gdynia
500 bgs, Rotterdam
POTASSIUM FERRICYANIDE—100 bbls, Atlantic Raw Materials, Hamburg
POTASSIUM FERROCYANIDE—300 bgs, Filo Color & Chemical Corp, Rotterdam
PSYLLIUM SEED—134 bgs, Meer Corp, Bombay
PYRIDINE—10 dms, Rotterdam
QUINIDINE SULFATE—36 dms, Lo Curto & Funk, Hamburg
QUININE—27 cs, American Roland Corp, Hamburg
SENEGA ROOT—20 bls, Meer Corp, Kobe
SENNA LEAVES—49 bls, Meer Corp, Port Sudan
15 bls, S B Penick & Co, Tuticorin
SESAME OIL—100 dms, Toyomenka Inc, NY, Kobe
SODIUM CYANIDE—400 dms, Ugine Industries, Havre
SODIUM SILICO FLUORIDE—900 bgs, Copenhagen
200 bgs, Hamburg
SULFAMIC ACID—440 bgs, H Bruckmann & Lorbacher, Bordeaux
TITANIUM DIOXIDE, ANATASE—1,103 bgs, Yokohama
1,000 bgs, Kobe
TRICHLOROETHYLENE—150 dms, International Selling Corp, Marseille
200 dms, Sealanes Corp, Leghorn
VITAMIN-B BACTERIAL POWDER—60 bgs, Triveste
WATTLE EXTRACT—551 bgs, American Dyewood Co, Durban

Acetaldehyde ex Ethylene

—Continued from page 3

pane and butane, the new Bay City unit will employ a German process licensed by Aldehyde GmbH (jointly owned by Farbwerke Hoechst and Wacker Chemie) involving air oxidation of ethylene over a suitable catalyst.

Like the propane-butane oxidation process, the new method omits conversion of ethylene to ethanol and thence to acetaldehyde. Instead ethylene is oxidized directly to acetaldehyde, which would then be upgraded to 2-ethylhexanol.

The plant will be located on a 1,000-acre site near Bay City. Outside sources estimate that the cost will be around $12 million. It's also believed that the 2-ethylhexanol plant size will be in the neighborhood of 15 million pounds a year. Construction will start in the second quarter with completion slated within a year.

Penick's English Associate Now Gerhardt-Penick, Ltd.

S. B. Penick & Co.'s associate company in England, C. F. Gerhardt Ltd., will henceforth be known as Gerhardt-Penick, Ltd.

The new name reflects the traditional status of C. F. Gerhardt Ltd., originally a botanical drug and raw materials company established in 1864, as well as its close relationship with the Penick organization in New York. For many years Gerhardt acted as sole agents in the United Kingdom for Penick and in 1952 was acquired by Penick.

Dow Cuts Polystyrene

—Continued from page 4

week, Dow pointedly criticized competitors:

"We shall accept the industry's decision with good grace, even though we believe the consequences will be unhealthy for all concerned, consumers and industry alike.

"The difference in philosophy between ourselves and our competition on this issue of the responsibility for growth will make it necessary for us to re-evaluate the most advantageous use of our entire technical, production and marketing capabilities."

The overall 3½ cent price decline, Dow says, represents more than half the profits reported by polystyrene producers during late 1960.

Dow's capitulation parallels an unsuccessful bid by E. I. duPont de Nemours & Co. (OPD, 1/16/61) to raise polyethylene prices. DuPont posted a 2½ cent advance to 30 cents a pound last fortnight but had back-peddled to 27½ cents before the week was out.

Advertisers' Index

Allied Chemical Corporation—Plastics Division 43
Allied Chemical Corporation, Solvay Process Division 31
American Cyanamid Company, Fine Chemicals Department 11
American Firstoline Corporation 34
American Lignite Products Co 50
Arapahoe Chemicals, Inc 39
Argueso, M., & Co., Inc 49
Armour Industrial Chemical Company 50
Ashcraft-Wilkinson Co 48
Baker, J. T., Chemical Co 1, 2
Barclay Chemical Company, Inc 54
Becco Chemical Division, Food Machinery & Chemical Corp 34, 37
Bios Laboratories, Inc 40
Blackman, Stanley, Labs, Inc 42
Blockson Chemical Company 34
Bower, Henry, Chemical Mfg. Co 32
Bowman, Charles, & Co 40
Brill Equipment Company 52
Brode Corporation, The 50
California Chemical Company, Oronite Division 23
Celanese Corporation of America, Chemical Division 19, 56
Chemical Manufacturing Co., Inc 32
Chemical & Process Machinery Corp 53
Chemical Service Corp 54
Chemical Solvents, Inc 56
Chemsol, Inc 54
Commercial Solvents Corporation 1
Concord Chemical Company 56
Coupe, Robert A 54
Cowles Chemical Company 26
Croda, Incorporated 50
Devold, Peder, Oil Company, Division, Chas. L. Huisking & Co., Inc 39
Dickinson, J. Q., & Co 42
Distillation Products Industries, Div. of Eastman Kodak Company 41
Duval Sulphur & Potash Co 48
Eastman Chemical Products, Inc 21
Emery Industries, Inc 49
Equipment Clearing House, Inc 53
Erie Casein Dryers 47
Fairmount Chemical Co., Inc 46
Felton Chemical Company, Inc 46
Fiber Chemical Corporation 56
First Machinery Corp 51
Fisher Chemical Co., Inc 56
Florasynth Laboratories, Inc 45
Forti, Carlo 54
Fritzsche Brothers, Inc 45
Gelb, R., & Sons, Inc 53
Givaudan-Delawanna, Inc 46
Gold Leaf Pharmacal Co., Inc 40
Greeff, R. W., & Co 17
Gulf Oil Corporation 34
Harchem Division, Wallace & Tiernan, Inc 49
Harshaw Chemical Co., The 42
Heat & Power Co., Inc 51
Heico, Inc 32
Henry, J. F., Chemical Co., Inc 34
Hoffmann-La Roche, Inc 38
Hooker Chemical Corporation 33
Hutchinson, D. W., & Co., Inc 45
International Petrosolvents, Inc 37
Jefferson Chemical Company, Inc 25
Lawler Company 53, 54
Lebanon Chemical Co 48
Lever Brothers Company 37
Loeb, H., & Son 54
Lucidol Division, Wallace & Tiernan, Incorporated 36
Machinecraft Corp 53, 54
Machinery & Equipment Company 51, 53, 54
Machinery & Equipment Co., The 53
Magnus, Mabee & Reynard, Inc 45
Meer Corporation 13
Merck & Co., Inc 32
Michigan Chemical Corporation 40
Minute Maid Corporation, Citrus Products Division 44
Mississippi Lime Company 34
Montrose Chemical Company 17
Morningstar-Paisley Inc 38
Nepera Chemical Co., Inc 40
Neville Chemical Company 56
Old Dutch Mustard Co., Inc 48
Pan American Sulphur Company 34
Penick, S. B., & Company 45
Pennsalt Chemicals Corporation, Industrial Division 1
Perry Equipment Corp 52
Petro-Tex Chemical Corporation 8
Pfizer, Chas., & Co., Inc 29
Philipp Brothers Chemicals, Inc 33
Pittsburgh Plate Glass Company, Chemicals Division 31
Plastics Division, Allied Chemical Corporation 43
Polak's Frutal Works, Inc. (PFW) 46
Prior Chemical Corporation 1
Process Plants Service, Inc 53
Procter & Gamble Co 37
Publicker Industries, Inc 37
Quaker State Oil Refining Corp 50
Raney Catalyst Co 37
Read, Chas. L., & Co., Inc 46
Reilly Tar & Chemical Corporation 6
Republic Steel Corporation 48
Riches-Nelson, Inc 56
Richter, Gedeon Pharmaceutical Products, Inc 42
Ritter, Dr., & Company 42
Ross, F. H., & Co 31
Sergeant, E. M., Pulp & Chemical Co., Inc 34
Shamrock Chemical Corporation 50
Smith-Douglass Company, Inc 33
Smith, Werner G., Inc 49
Standard Collapsible Tube Co 42
Stein Equipment Co 54
Strohmeyer & Arpe Co 50
Synthetic Products Company 47
Tennant Chemical Division, Tennant Development Corporation 42
Texas Gulf Sulphur Co., Inc 27
Union Carbide Chemicals Company, Division of Union Carbide Corporation 1
U. S. Borax & Chemical Corporation 1
United Ultramarine & Chemical Company, Inc 47
van Ameringen-Haebler, Division of International Flavor & Fragrances, Inc 46
Vanderbilt, R. T., Co., Inc 47
Ventura Processors 20
Verona Aromatics, A Division of Verona-Pharma Chemical Corp 46
Wallerstein Company, Inc 15
Winthrop Laboratories 42
Wolf, Bill, Inc 54
Wood Ridge Chemical Corporation 37
Wyandotte Chemicals Corporation 34

OPD's Advertising Staff

PRODUCTION: Claire Shannon
BUYERS DIRECTORY: Helen Lehse
NEW YORK (RE 2-9820)—Alexander Kane, Edwin F. Novy, Bronson Philhower.
CLEVELAND (LOng 1-8844)—Henry G. Seed, 17712 Lemond Boulevard, Cleveland 22, Ohio
MIAMI (FRanklin 9-2668)—John Printup & Associates, Langford Building, Miami 32, Fla.
DALLAS (DAvis 1-0898)—John Printup & Associates, 2607 Milmar Drive, Dallas 28, Tex.
LOS ANGELES (DUnkirk 7-4388)— Robert W. Walker Company, 736 South Western Avenue, Los Angeles 5, Calif.
SAN FRANCISCO (SUtter 1-6568) — Robert W. Walker Company, 57 Post Street, San Francisco

WAXES for every purpose

- CARNAUBA REPLACEMENTS
- JAPAN WAX REPLACEMENTS
- MICROCRYSTALLINE WAXES
- SELF-EMULSIFIABLE WAX
- WATER-SOLUBLE WAX
- WAX EMULSIONS

Write or call:

CONCORD CHEMICAL CO., INC.

Camden 1, New Jersey · Phone: WOodland 6-1526

GLYCOL ETHERS

"Cellosolve"* Solvent • Methyl "Cellosolve"* • Butyl "Cellosolve"* • "Carbitol"* Solvent • Butyl "Carbitol"* • Methyl "Carbitol"*

*Reg. Trade Mark

GLYCOLS
GLYCOL ETHERS
ALIPHATIC NAPHTHAS
POLYETHYLENE GLYCOLS
ALCOHOLS
ESTERS

AMINES
KETONES
AROMATIC SOLVENTS
SURFACE ACTIVE AGENTS
CHLORINATED SOLVENTS
PLASTICIZERS

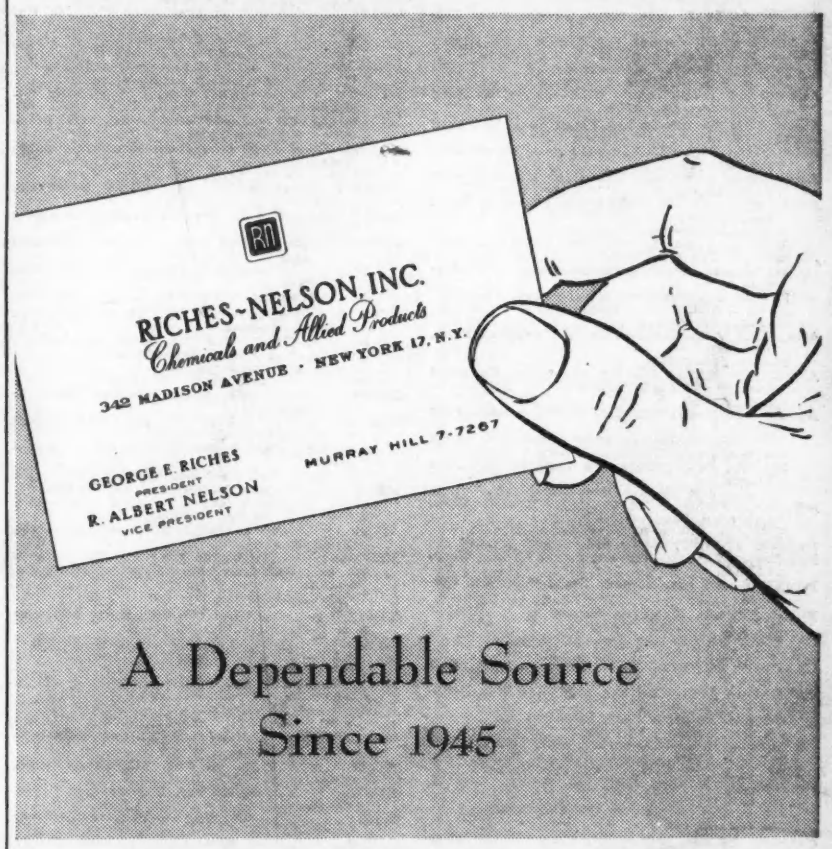
CS
CHEMICAL SOLVENTS, INC.
50 PARK PLACE, NEWARK 2, N. J.
WOrth 2-7763 (N.Y.) Market 2-3650 (N.J.)

RESINS FOR ADHESIVES

NEVILLE CHEMICAL COMPANY • Pittsburgh 25, Pa.

Manufacturers of Hydrocarbon Resins, Oils and Solvents

NEVILLE



A Dependable Source
Since 1945

potassium chrome alum

by

FIBER CHEMICAL CORPORATION

Manufacturers of Chrome Chemicals

P. O. Box 218, MATAWAN, N. J. Tel.: LOwell 6-1100

DIETHYL CARBAMYL CHLORIDE

DIMETHYL CARBAMYL CHLORIDE

MANUFACTURED BY

gamma chemical corporation

GREAT MEADOWS, N. J.

SOLE SALES AGENTS

Fisher chemical co., inc.

255 LEXINGTON AVE., NEW YORK 17, N.Y.

MURRAY HILL 2-2587

CABLE ADDRESS: PHARCHEM

"I'm saving money with Celanese Formcel Solutions! Formaldehyde in methyl, n-butyl, isobutyl or n-propyl alcohols makes for larger batch sizes... saves dehydration costs!"

Celanese® Formcel®

Celanese CHEMICALS